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## Pumps

• End Suction Centrifugal Pump



LEO GROUP PUMP(ZHEJIANG) CO.,LTD. (Stock code: 002131)

2019 VI.0

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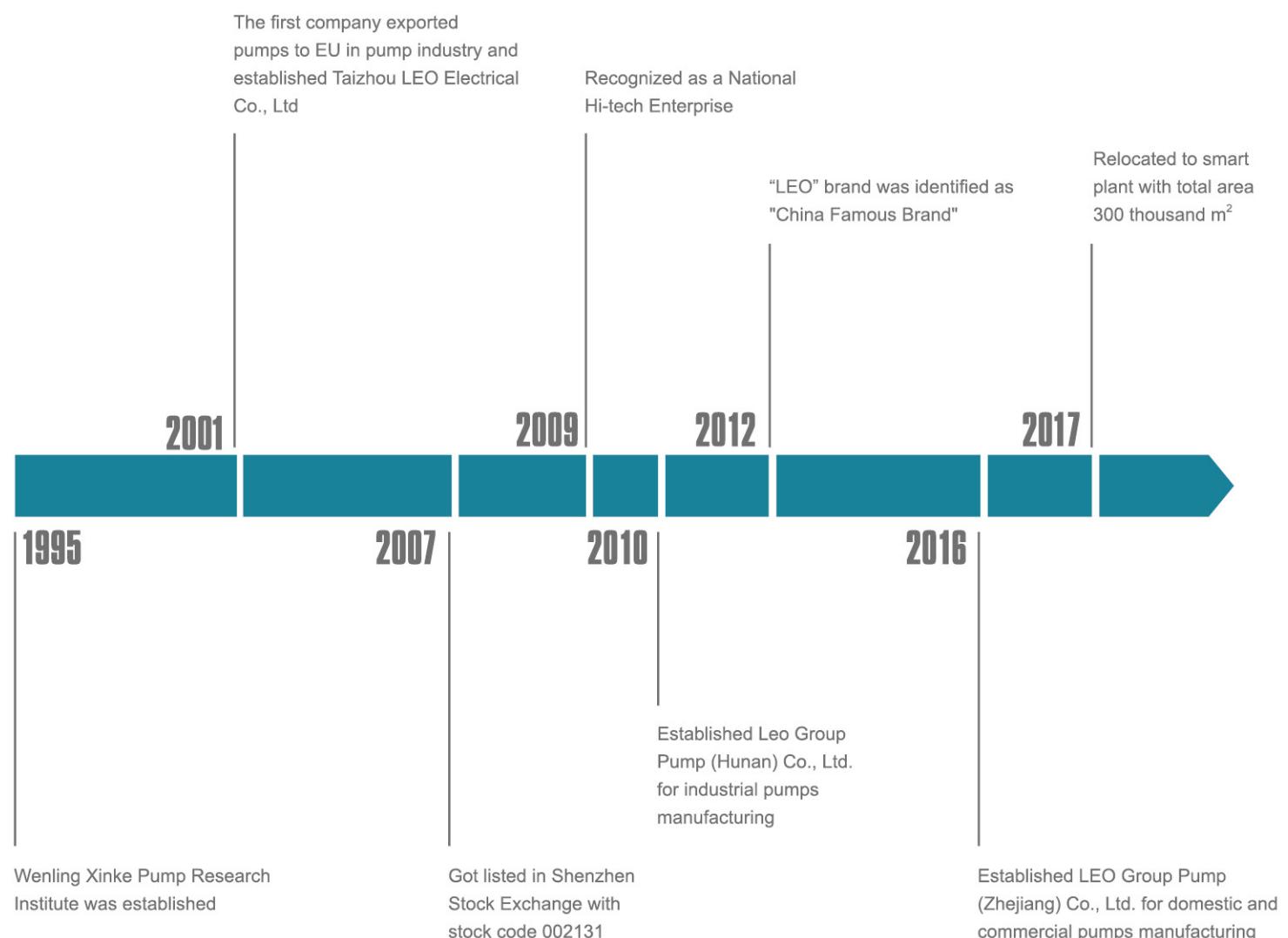
LEO GROUP PUMP(ZHEJIANG) CO.,LTD.



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## HISTORY



## TO KNOW LEO

LEO Group (got listed in Shenzhen Stock Exchange with stock code 002131) is a national high-tech enterprise engaged in R&D, design, manufacture, sales and service of all series pumps and systems. LEO is the first listed company in Chinese pump industry, one of the drafters of pump industry standard and the vice president of drainage and irrigation machinery branch of China Agricultural machinery industry association as well. "LEO" has been identified as "China Famous Brand" by the State Administration of Industry and Commerce. It is mentionable that LEO has the only state-authorized technical center in pump industry.

We have set up many production and sales subsidiaries in key regional markets such as America, Hungary, Belgium, Thailand, Indonesia, United Arab Emirates and Bangladesh and authorized exclusive distribution agency in over 100 countries.

Our products have been sold to over 120 countries and regions, such as Europe, North America, Central &South America, Southeast Asia, Middle East, Africa, Oceania ,etc., which play a crucial role in water conservancy , water resources, electric power construction, petrochemical industry, mining, metallurgy, fire-fighting, HVAC(Heating, Ventilation and Air Conditioning), agricultural irrigation, civil water supply and drainage, etc.

LEO has currently two industrial groups respectively for industrial and civilian applications. With four manufacturing bases in Wengling of Zhejiang, Xiangtan of Hunan, Wuxi of Jiangsu and Dalian of Liaoning, LEO possesses a solid foundation to become a world-class pump and system solution provider rapidly.

With over 70 years' professional technology, LEO will continue her consistent creativity and development ability in each pump for human's health.



## NUMEROUS MEMBERS, ONE FAMILY

Based on market segment, LEO's pump business is divided into 5 fields, namely water conservancy & water resources, power station, petrochemical industry, mining & metallurgical industry and civilian applications. For each field there's a professional manufacturing base with relevant professional sales teams. Three subsidiary companies, Wuxi LEO Xi Pump, LEO Group Pump (Hunan) and Dalian LEO Pump are all well-known industrial pump manufacturers in their own fields. With over 70 years' industrial pump manufacturing experience and extraordinary comprehensive strength, LEO has become a leading company among all industrial pump manufacturers in China.



**Pump Manufacturing Base for Domestic and Commercial Applications  
(Wenling City, Zhejiang Province)**

LEO Group Pump (Zhejiang) Co., Ltd, a wholly-owned subsidiary of LEO Group Co., Ltd, is the core base for R&D, manufacturing, sales and service of domestic and commercial pumps for family water supply, pipeline boosting, garden and field irrigation, HVAC, etc.

The leading products include peripheral pump, jet pump, centrifugal pump, garden submersible pump, fountain pump, pool pump, domestic lifting station, gasoline engine pump, diesel engine pump, submersible pump, submersible borehole pump, submersible sewage pump, stainless steel vertical multistage pump, etc.

The product range covers 15 series with over 2,000 specifications, which are well sold in more than 120 countries and regions. The base has established steady cooperative relationships with world-class pump manufacturers, importers, dealers and hypermarkets.



**Pump Manufacturing Base for General Industrial Pumps  
(Xiangtan City, Hunan Province)**

Established in 2010, LEO Group Pump (Hunan) Co., Ltd. is a wholly-owned subsidiary by LEO Group Co., Ltd. Located in Juhua Economic Development Zone of Xiangtan City, Hunan Province. Covers an area of 85,000m<sup>2</sup> and construction area is about 92,635 m<sup>2</sup> with total investment of approximately 74 million dollars.

It is the most important R&D, manufacturing and testing center of LEO Group. The leading products include large mixed flow and axial flow pump (vertical, horizontal, oblique, tubular, submersible etc.), double-suction centrifugal pump, multistage centrifugal pump, slurry pump, desulphurization pump and submersible centrifugal pump. Products are mainly used in mine, metallurgy, coal washing, FGD, municipal water etc.



**Pump Manufacturing Base for Water Conservancy & Water Resources (Wuxi City, Jiangsu Province)**

Formerly known as Wuxi Xi Pump Manufacturing Co., Ltd., a well-known manufacturer of water conservancy, is specialized in large and medium-sized pumps production for urban water supply and drainage, farmland irrigation, water conservancy projects and large water diversion project. The main products cover 32 series with nearly 1000 specifications. Products exported to more than 20 countries in Asia, Latin-America, Europe and Oceania.

As a main supplier, the base provides large pumps for South-to-North Water Diversion Project—a national key project. There are over 140 technicists, including 1 professor level senior engineer, 16 senior engineers, and 39 engineers.



**Pump Manufacturing Base for Petrochemical Industry  
(Dalian City, Liaoning Province)**

It is the pump manufacturing base for petrochemical industry, combined with Dalian LEO Huaneng Pump Co., Ltd and LEO (Dalian) Industrial Pump Technology Center Co., Ltd.

Formerly known as Dalian Huaneng Corrosion-Resistant Pump Works, the base is specialized in production of petrochemical pumps for crude oil transportation, crude oil refinery, heavy chemical industry, coal chemical industry and fine chemistry, etc. The base focuses on design and manufacture of 30 series (OH, BB, VS, etc.) of petrochemical pumps with over 3000 specifications, which are in accordance with API and ISO standard.

LEO (Dalian) Industrial Pump Technology Center Co., Ltd. is one of the research branch of national level technology center for petrochemical pumps, specializes in R&D, design of pumps of petro chemistry, coal chemical industry, long-distance transport pipes, energy resources, fine chemicals industry, etc. Design and develop software and large laboratories, explore liquid transport schemes under severe conditions and solve the difficult projects of ultralow temperature, high temperature, high pressure, low cavitation, highly corrosive, energy recovery, etc.

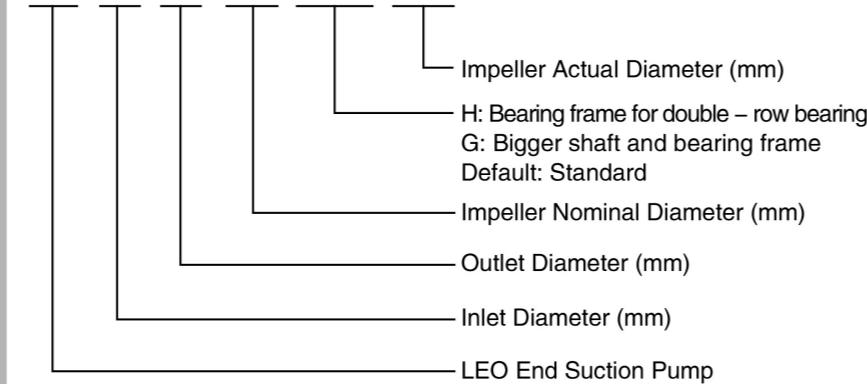


## Applications

- Water supply systems
- Pressure boosting
- Heating systems for commercial buildings and district heating
- Cooling plants for industrial processing and air-conditioning units
- General transport for industrial processes
- Fire fighting system

## Identification Codes

**LEP 50-32-130 H(G)/139**



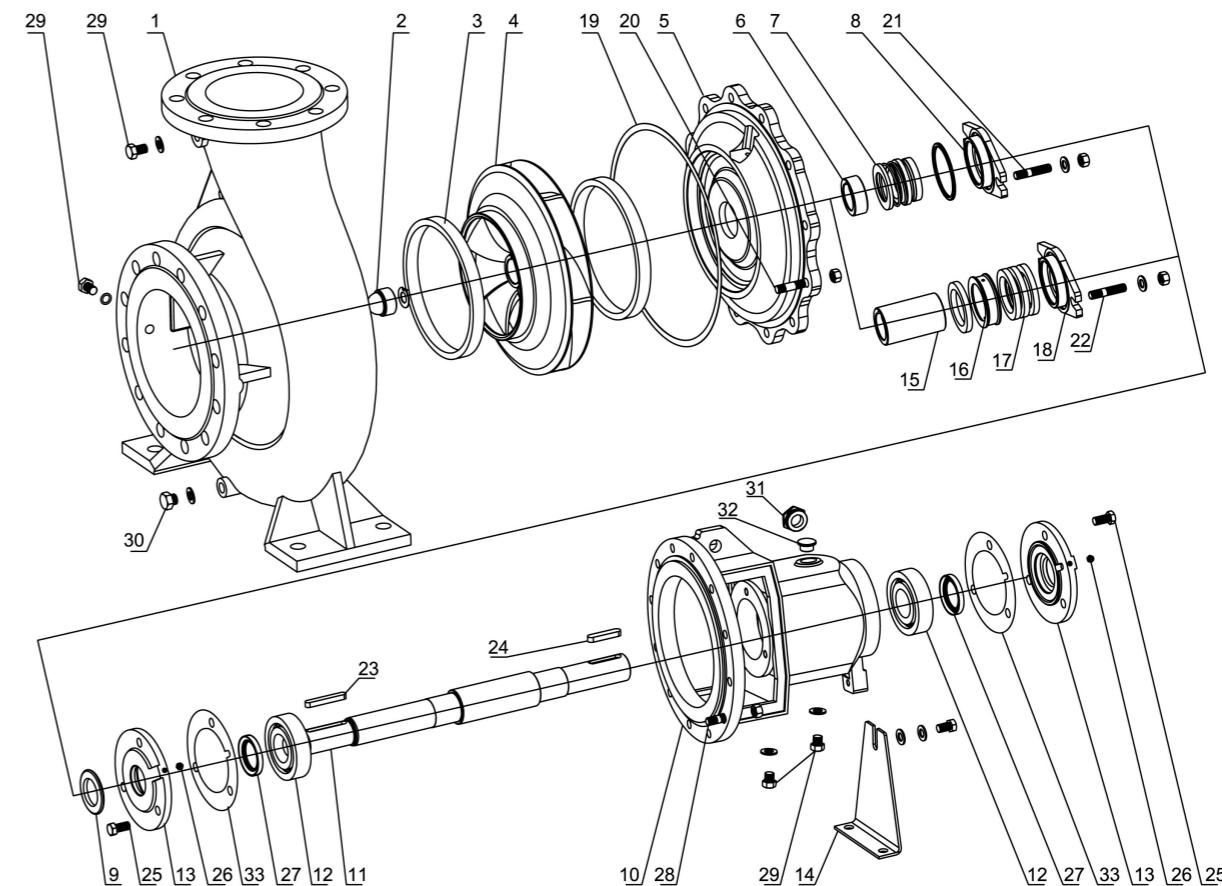
## Working Conditions

- Pump design complies to BS EN 733/DIN 24255 standard
- Conveying medium: Low viscosity, non-inflammable and non-explosive liquids not containing solid particles or fibers
- Speed: 1450/2900 rpm at 50 Hz, 1750/3500 rpm at 60 Hz
- Flow range: 0.5 - 440 l/s
- Head range: 2 - 152 m
- Max. liquid temperature: 105°C
- Liquid pH value: 4 - 10
- Max. operation pressure: 10 bar, 16 bar on request

## Design & Structure

Design	Performance and dimensions referring to the European standard BS EN733/DIN24255
Structure	Horizontal, Axial End-Suction, Single-Stage, Single-Suction, Volute Casing, Back pull-out
DN(mm)	Inlet: 50-350 Outlet: 32-300
Flange	ISO7005.2 ; DIN2501 PN16 ; GB/T17241.6 PN1.6

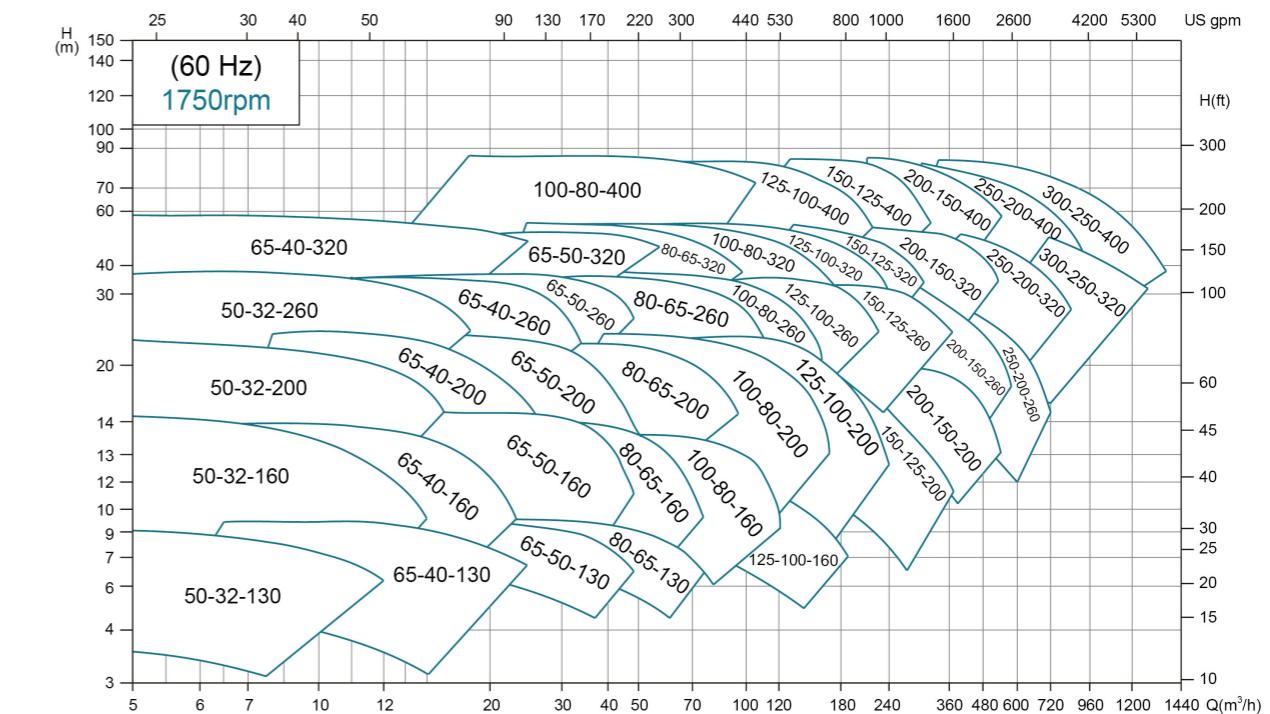
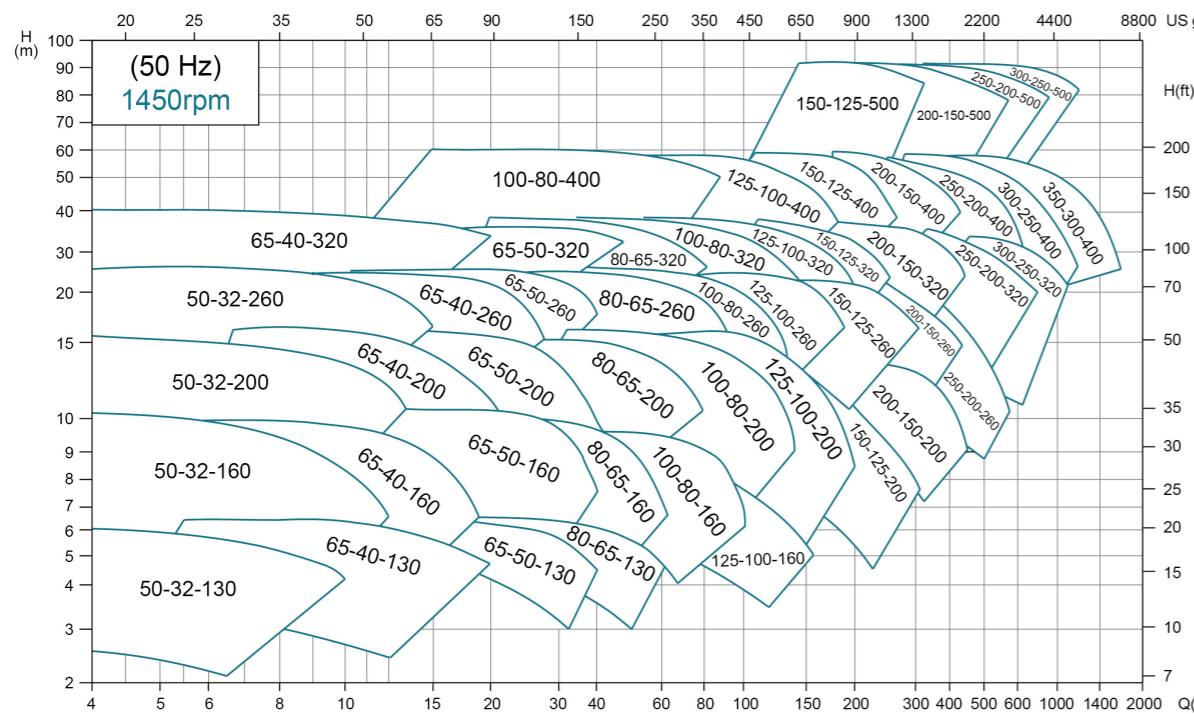
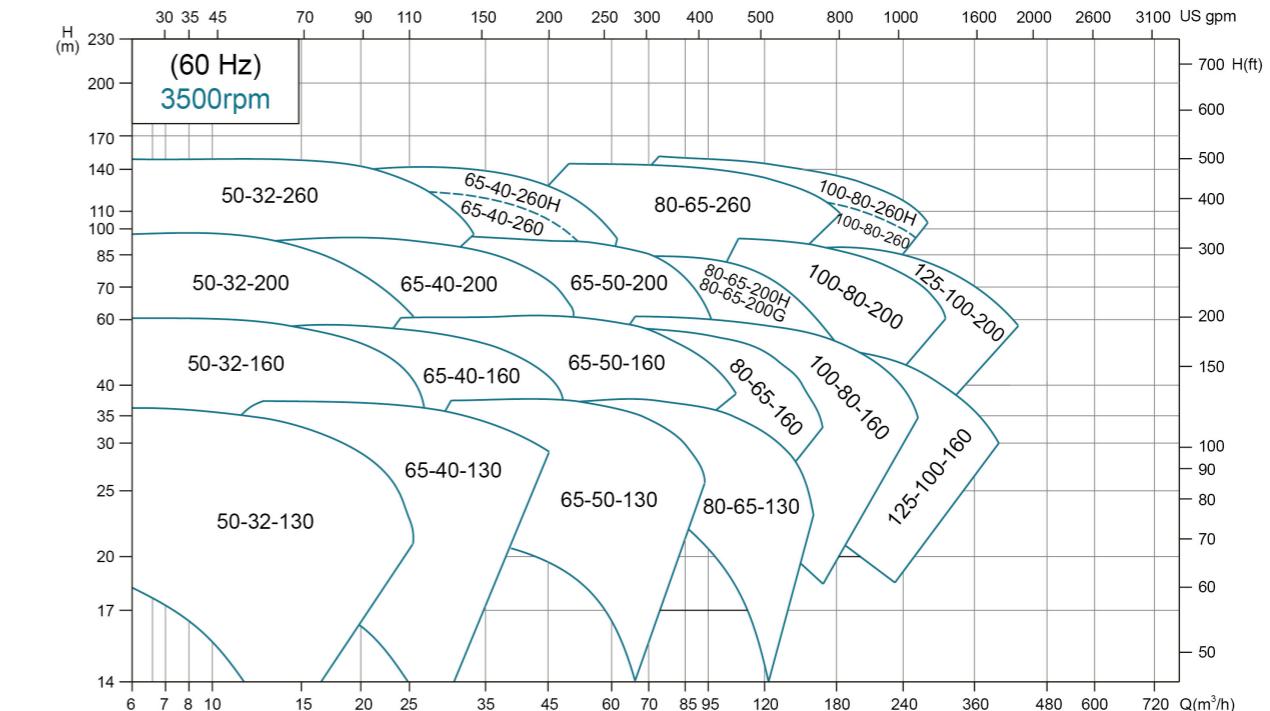
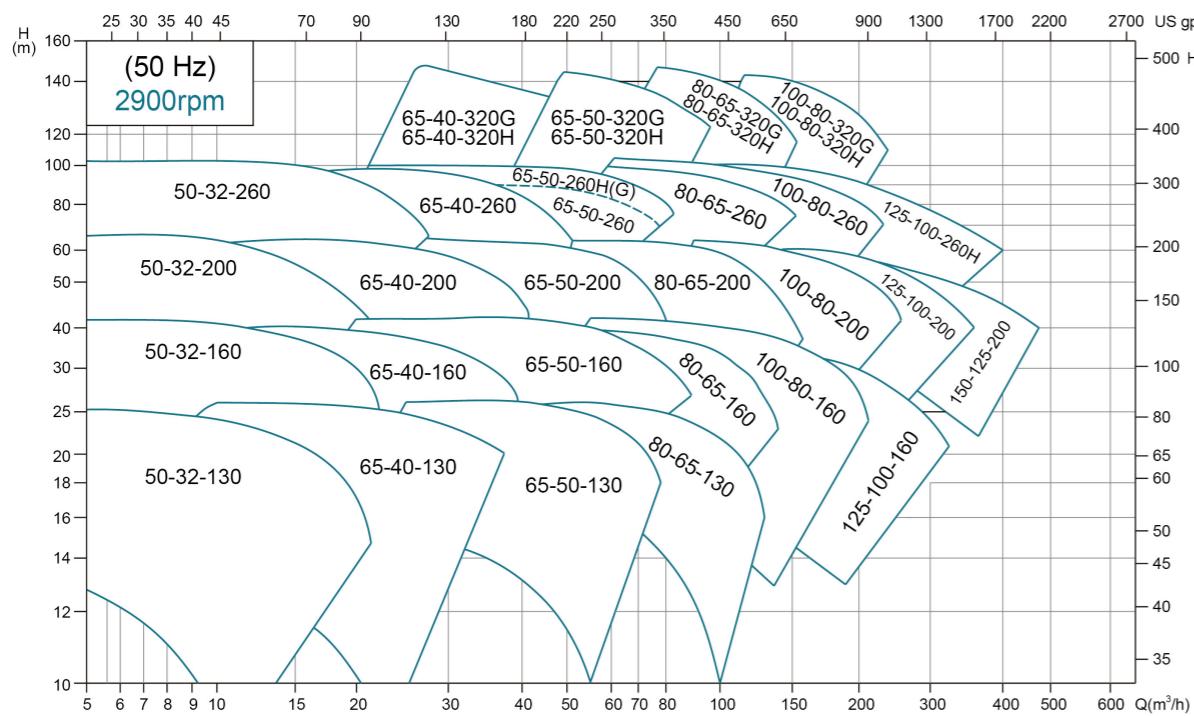
## Materials Table



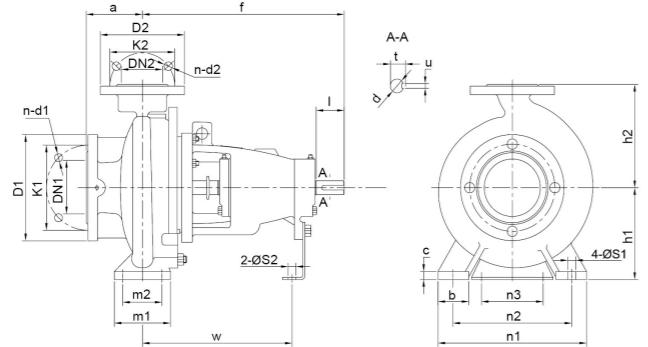
No.	Part	Material
1	Pump casing	Cast Iron Ductile Iron 304/316
2	Impeller nut	
3	Wear ring	
4	Impeller	Brass/Bronze Cast Iron 304/316
5	Casing cover	
6	Shaft spacer	
7	Mechanical seal	
8	Seal cover	
9	Rubber slinger	
10	Bearing frame	
11	Shaft	304/316/1045

No.	Part	Material	No.	Part	Material	No.	Part	Material
12	Bearing		23	Key		29	Flange	
13	Bearing cover		24	Key		30	Foot	
14	Support foot		25	Bolt		31	Shaft	
15	Packing sleeve	Bronze	26	Oil nipple		32	Oil cover	
16	Packing seal cage		27	Oil seal		33	Bearing Cover Gasket	
17	Gland packing		28	Nut		29	Washer	
18	Gland cover		29	Washer		10	Washer	
19	Casing gasket		30	Washer		12	Washer	
20	Nut		31	Oil scale		27	Washer	
21	Nut		32	Oil cover		13	Washer	
22	Nut					25	Washer	

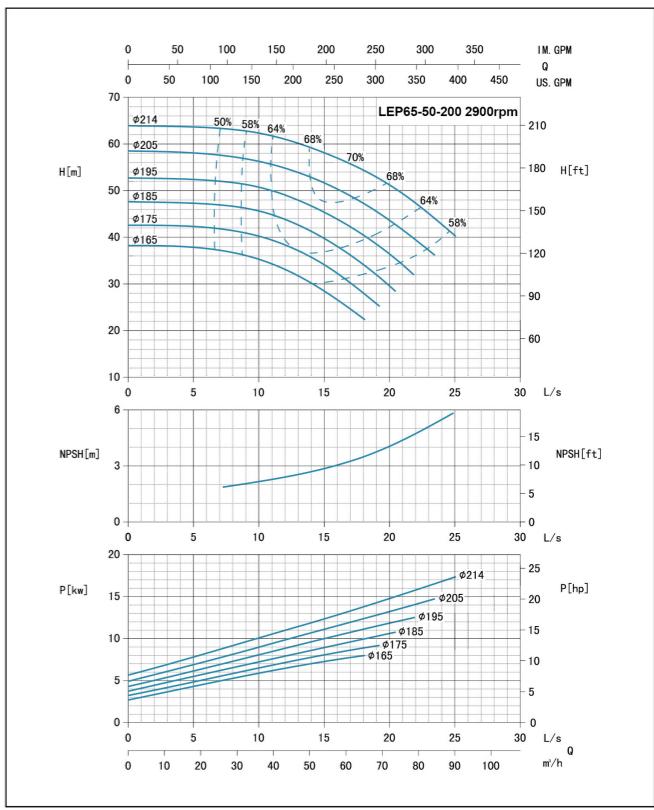
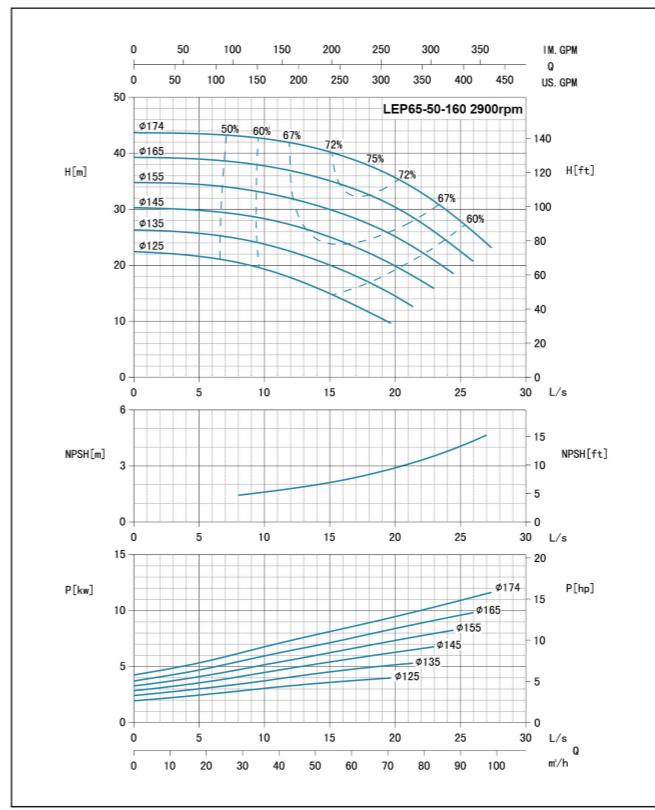
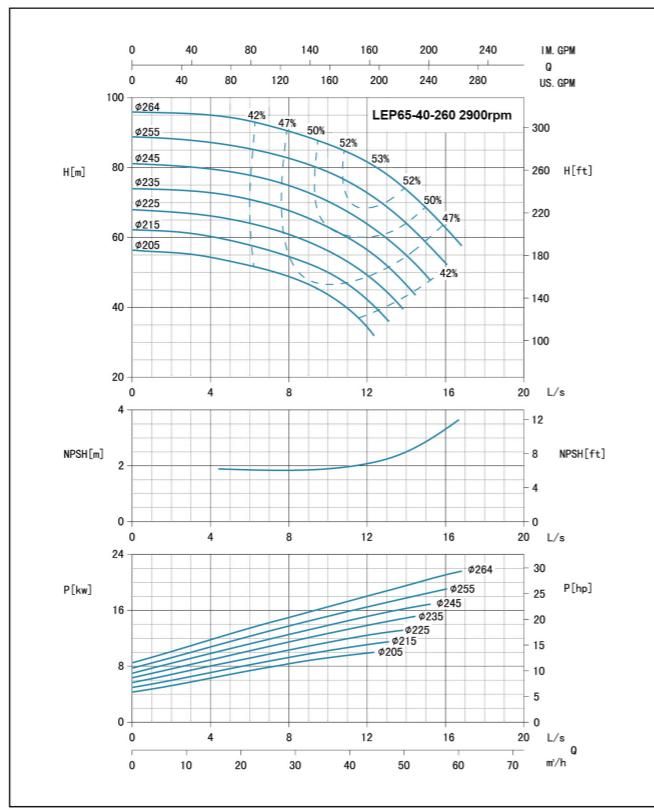
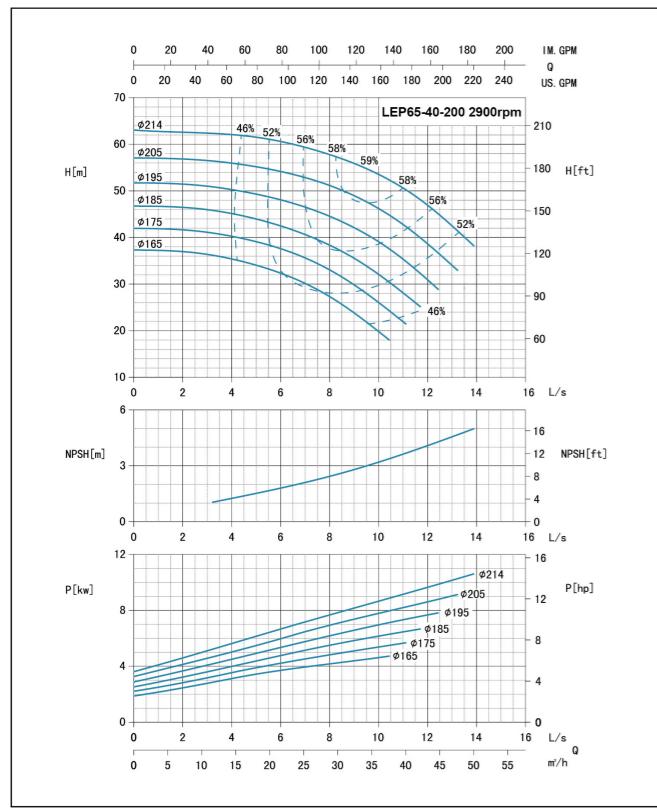
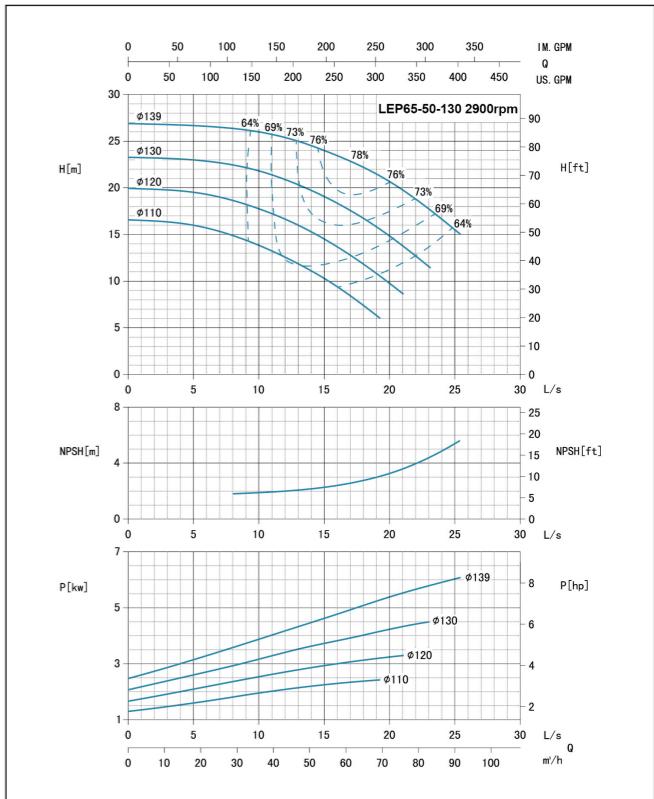
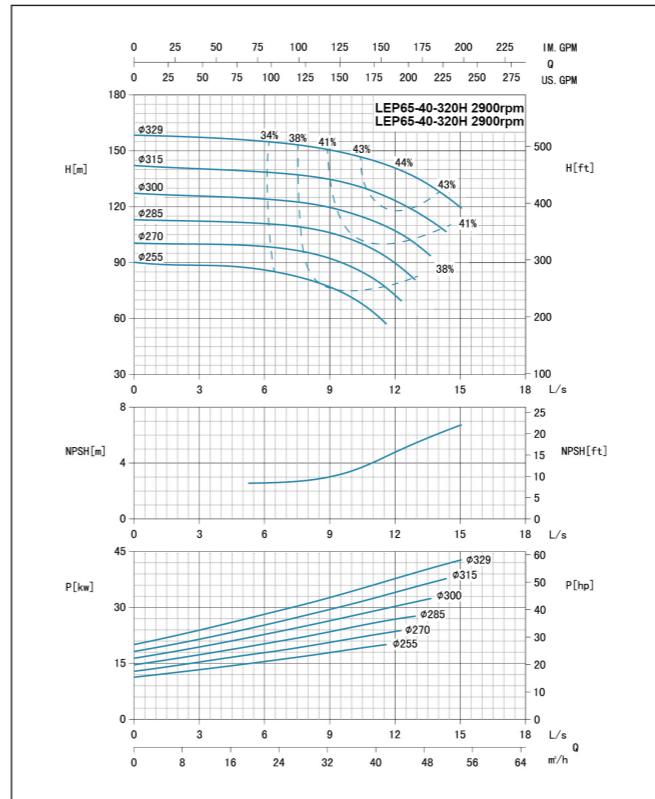
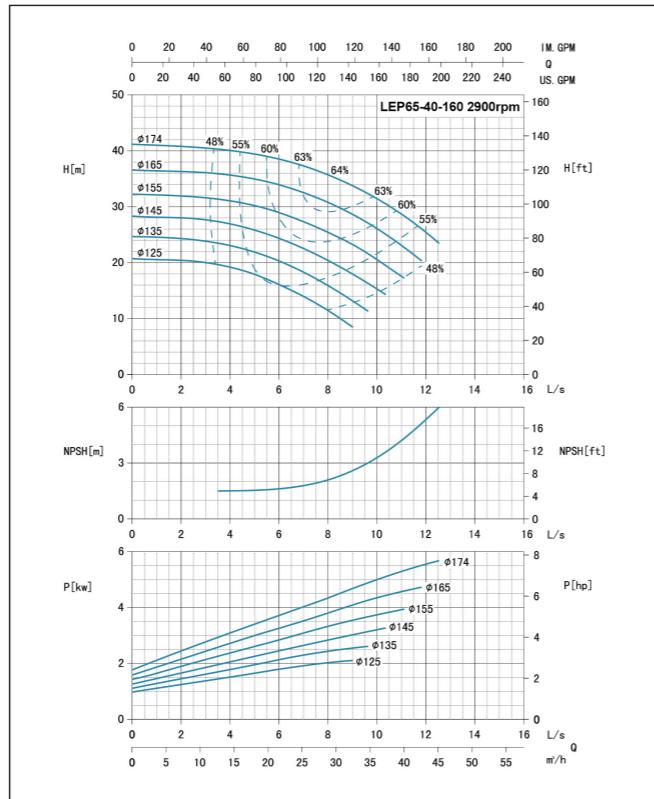
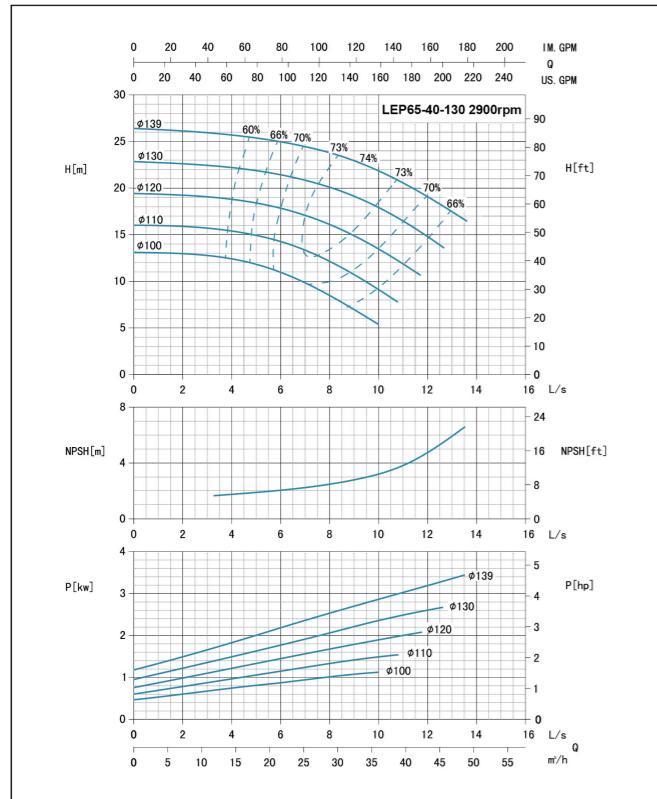
## Characteristic Curves

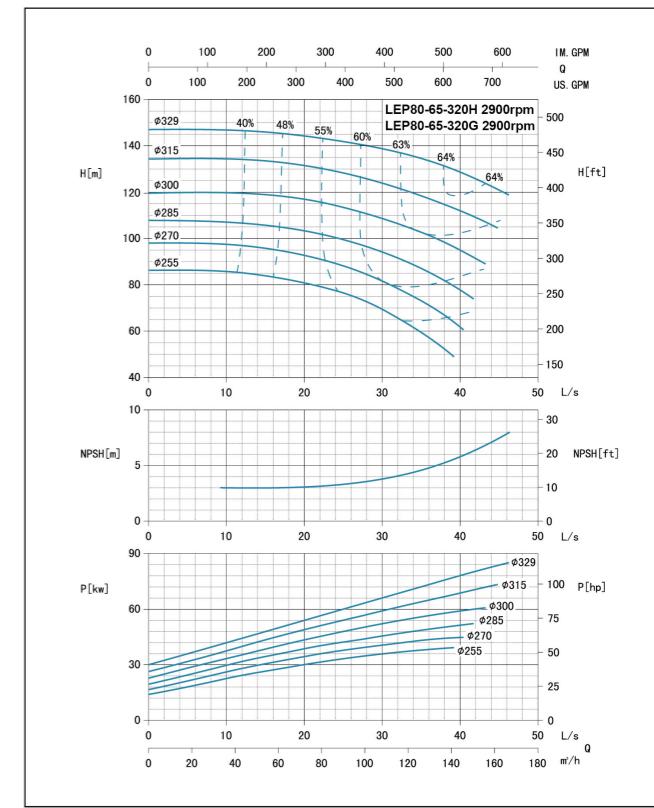
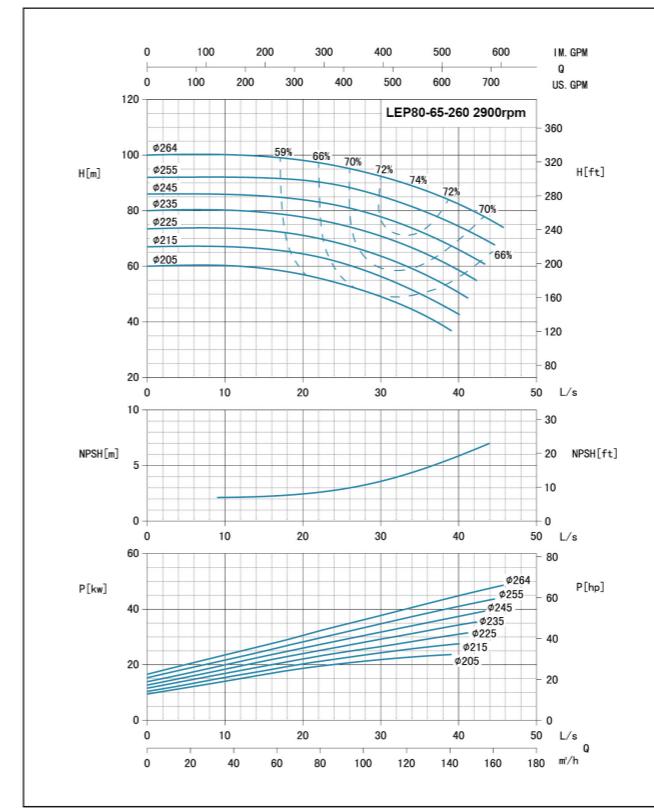
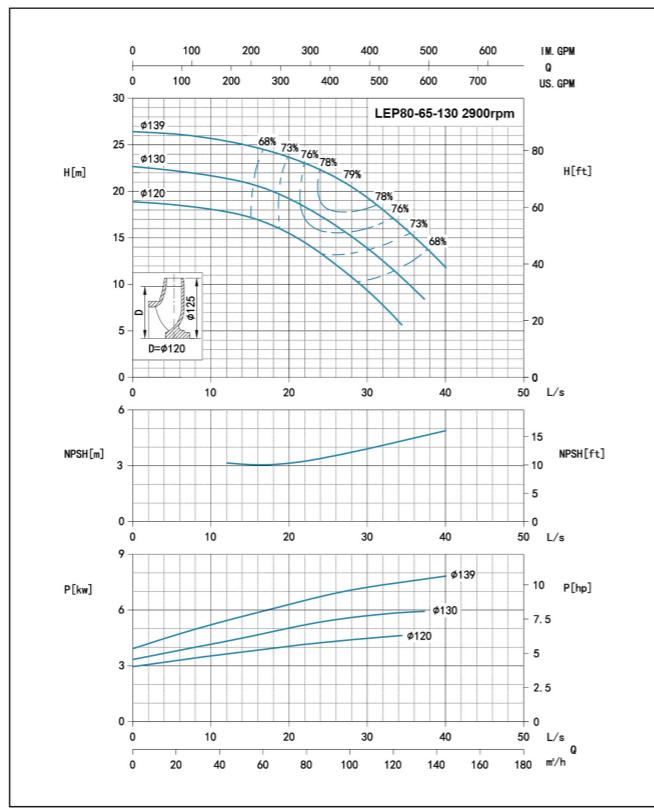
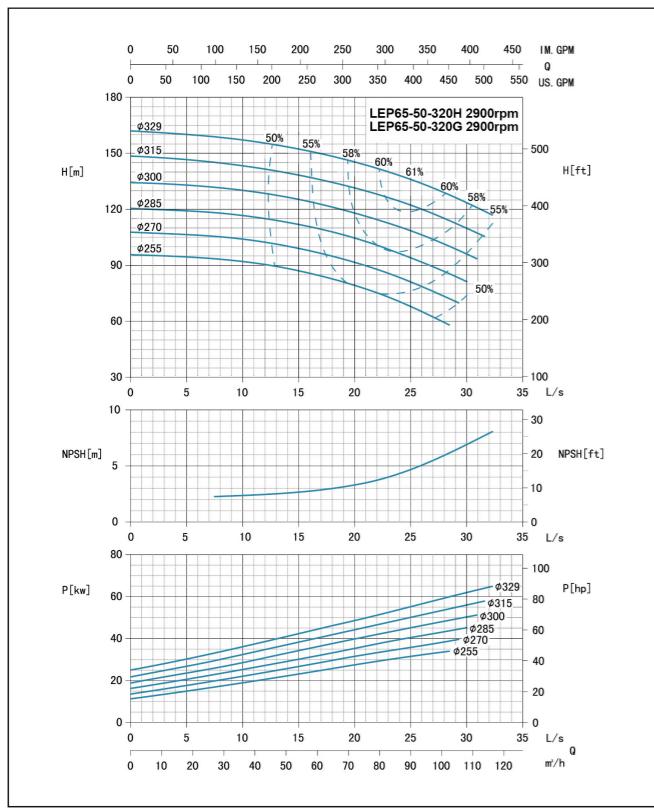
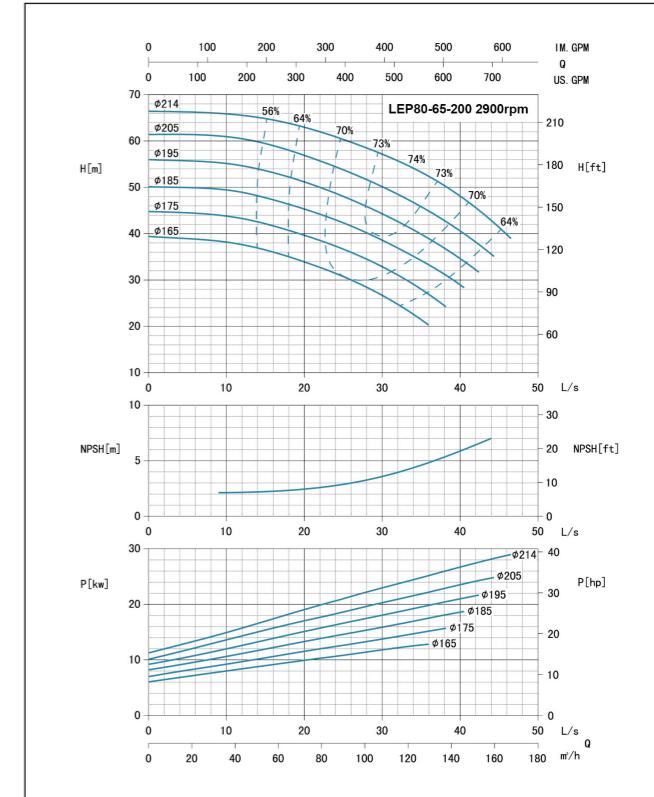
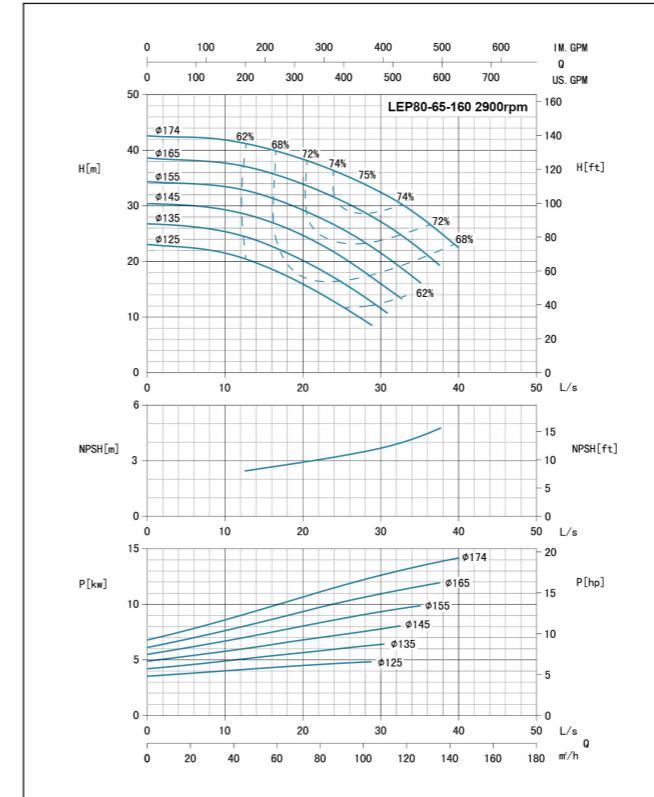
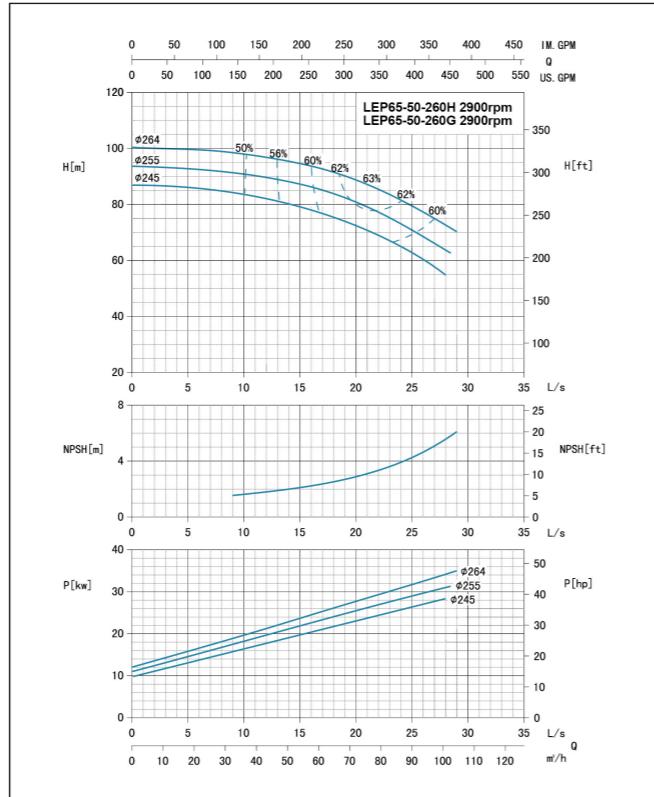
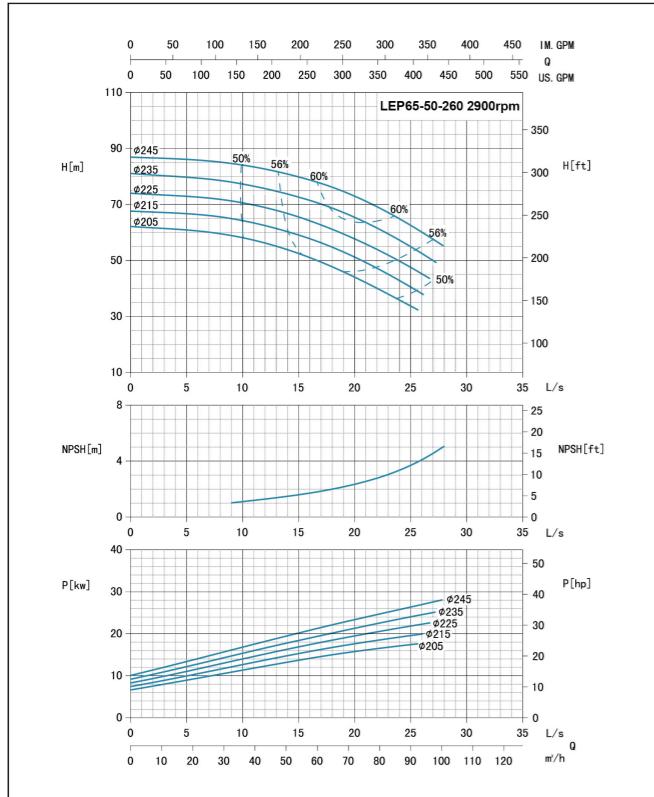


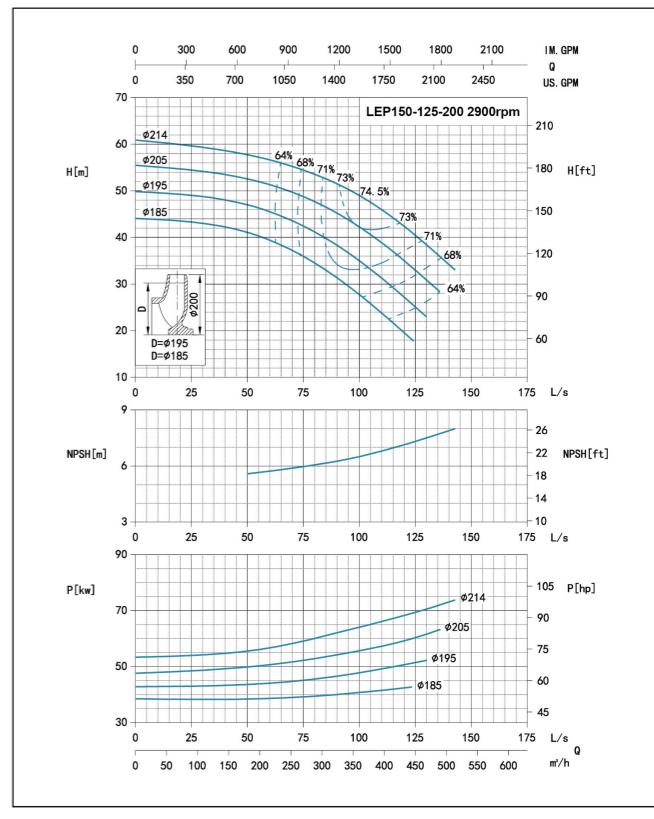
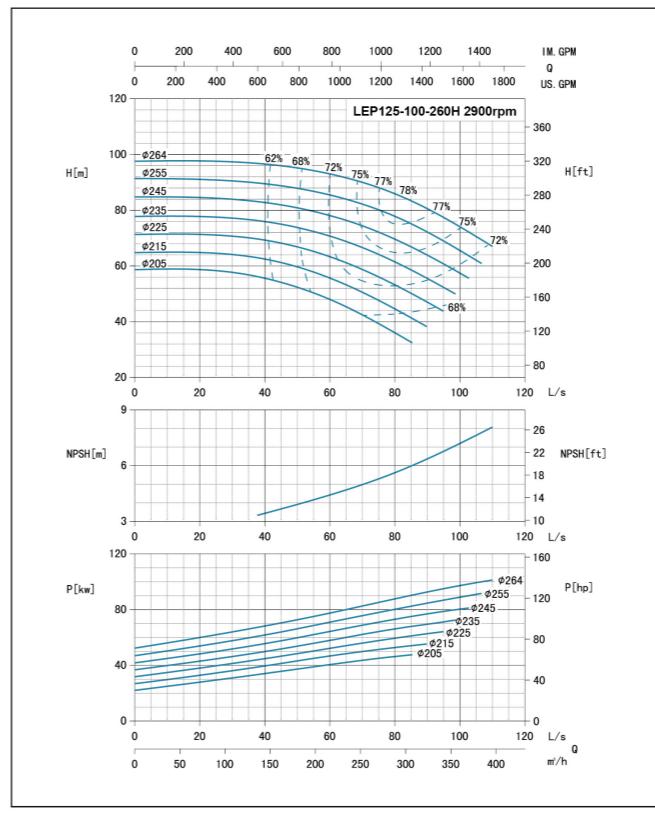
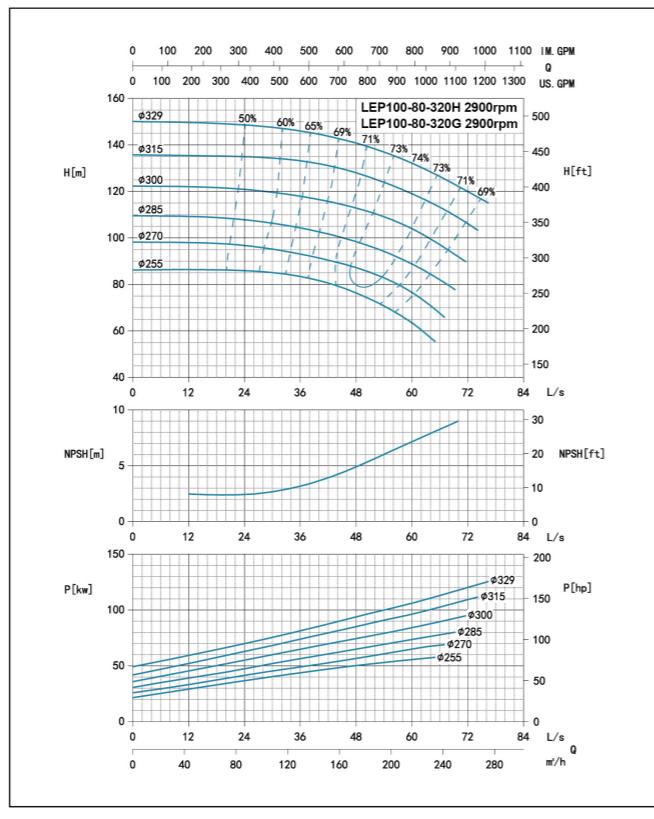
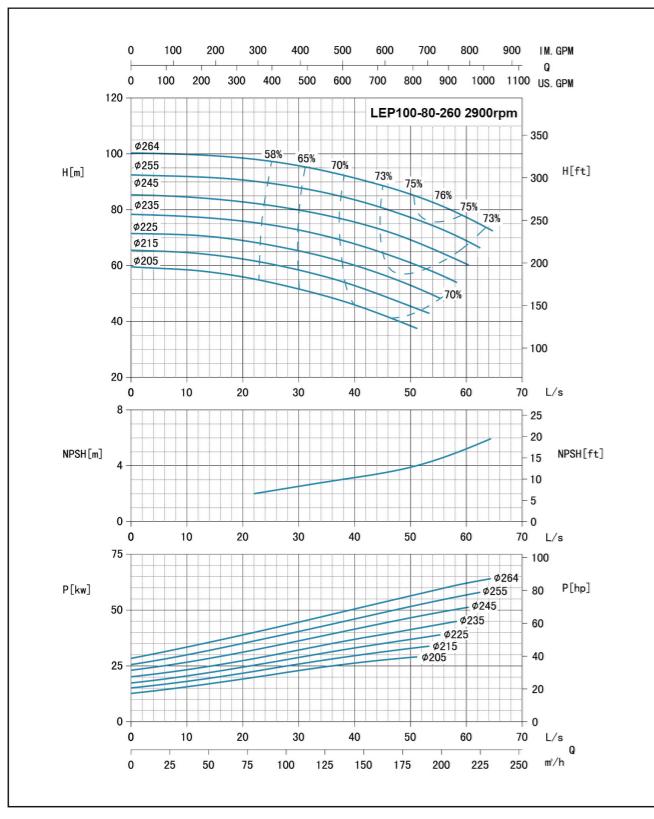
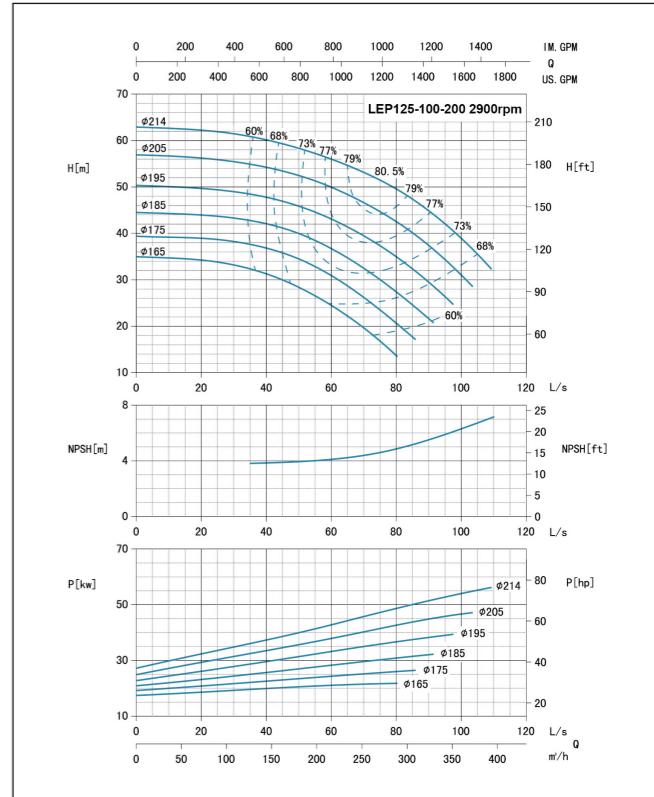
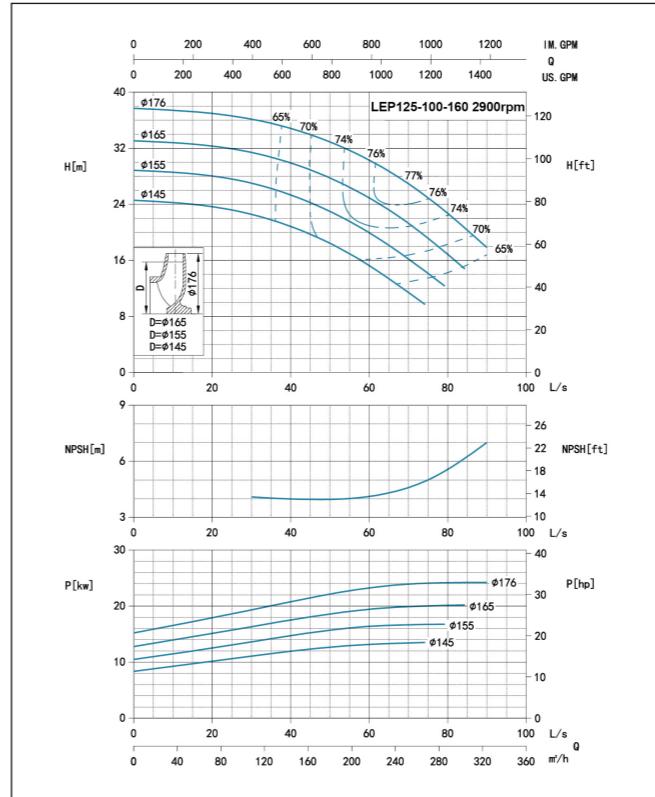
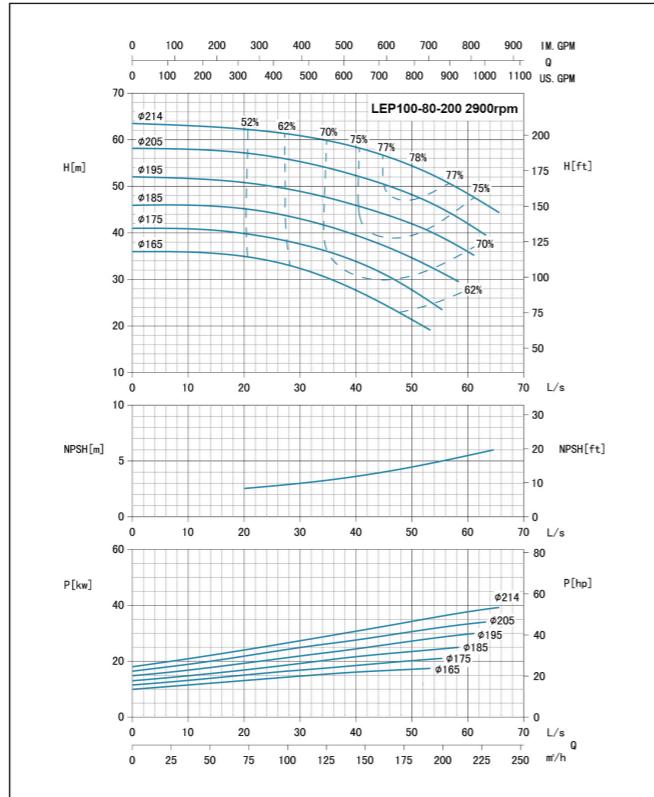
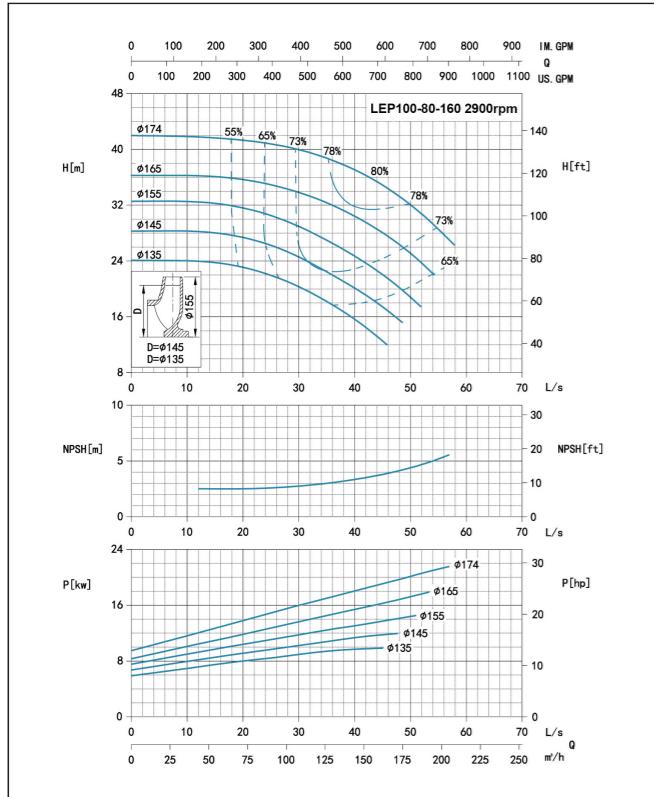
## Installation Dimensions

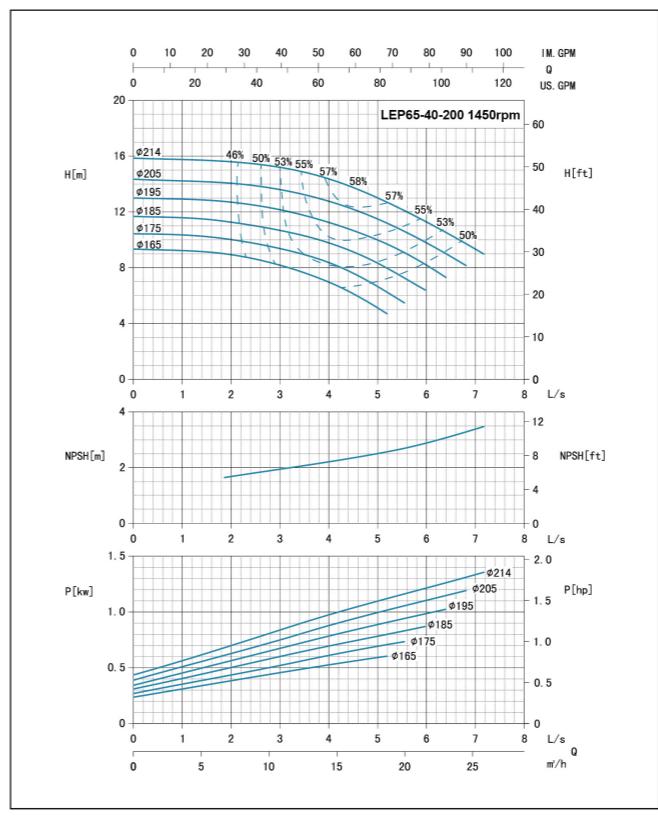
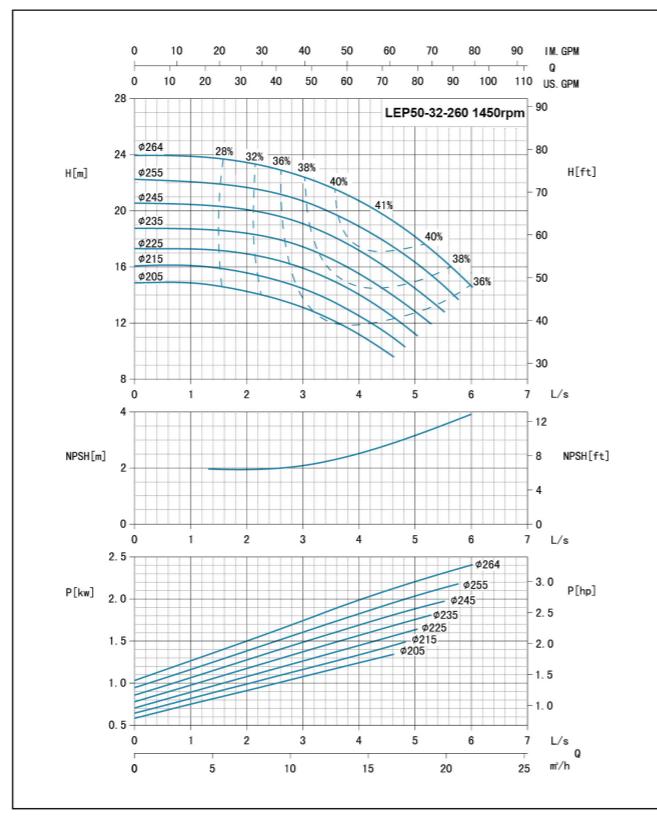
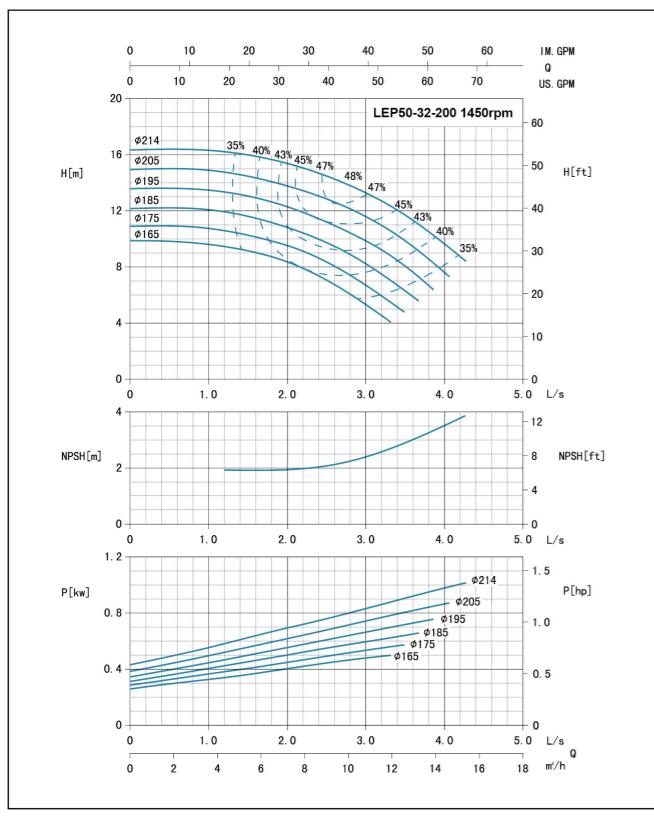
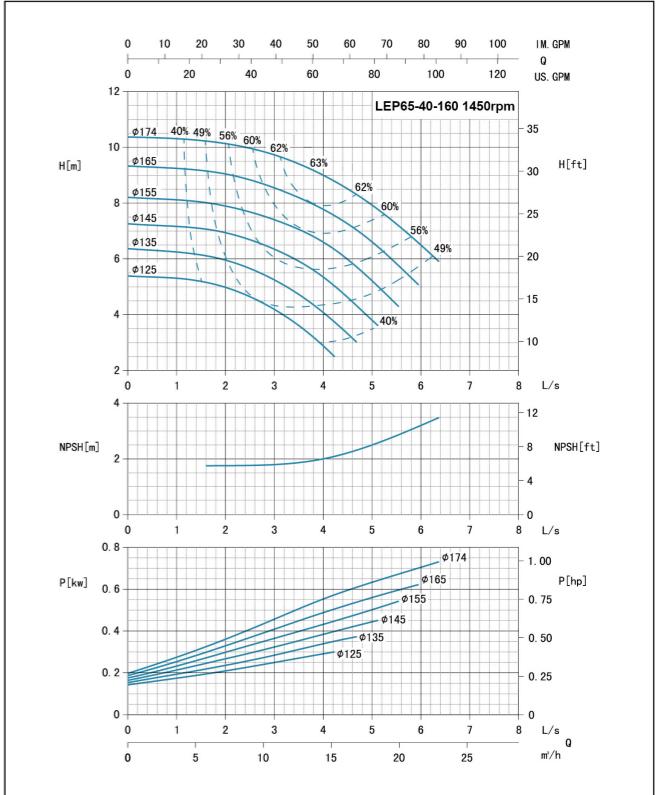
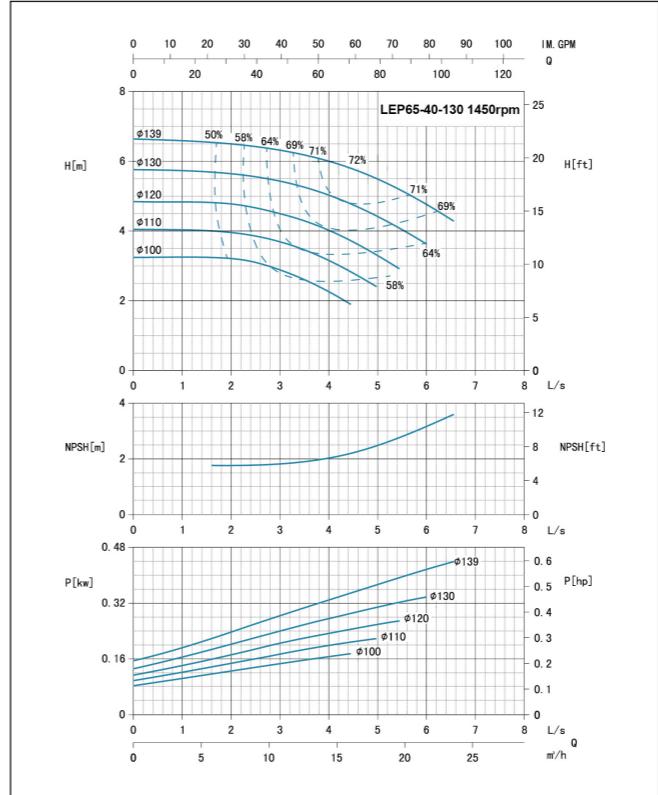
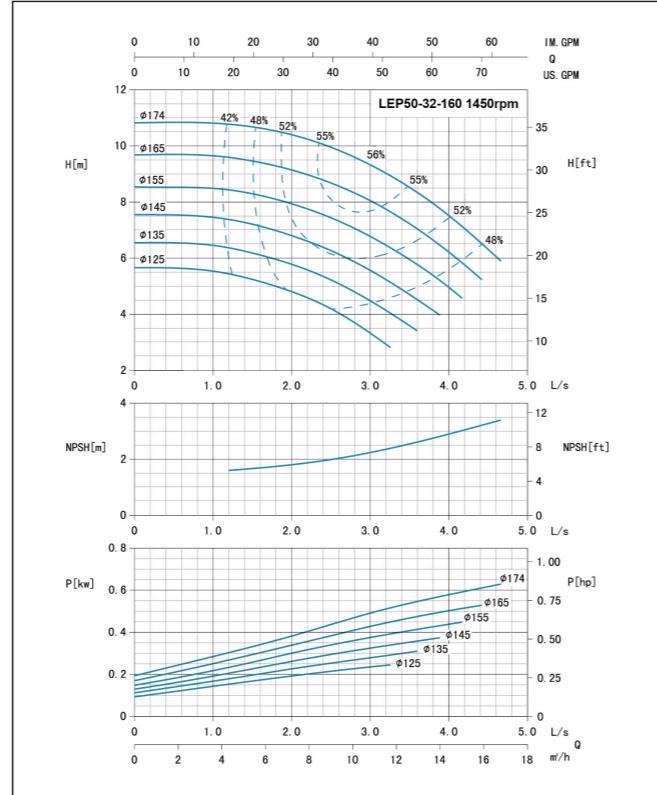
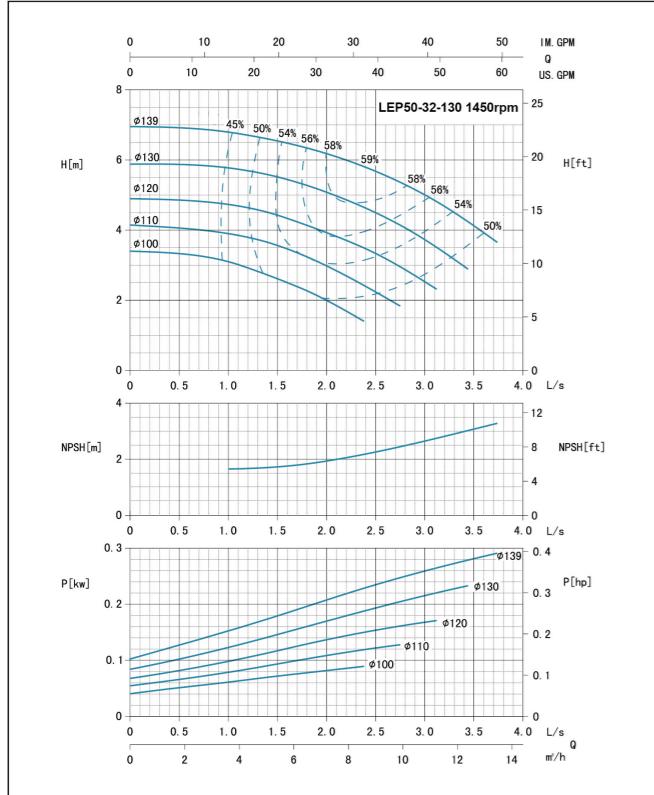


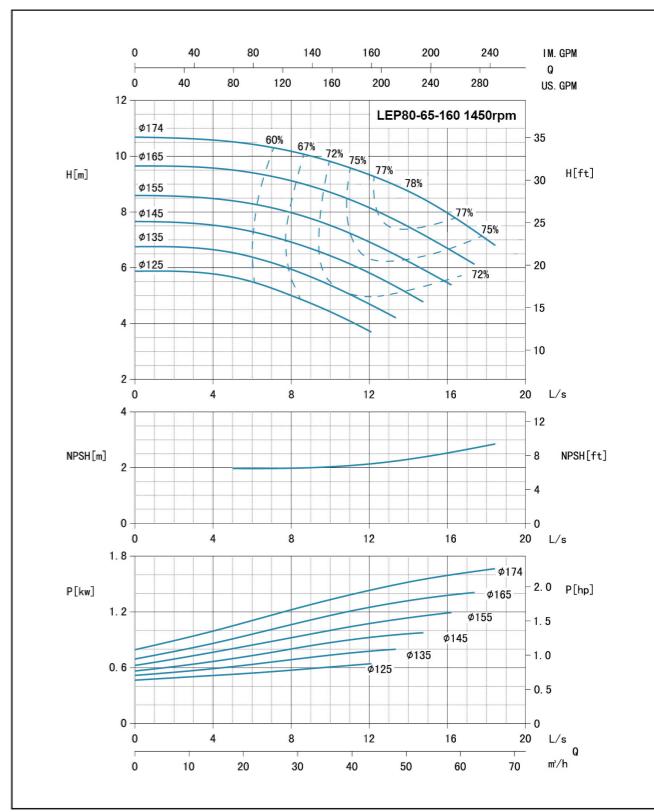
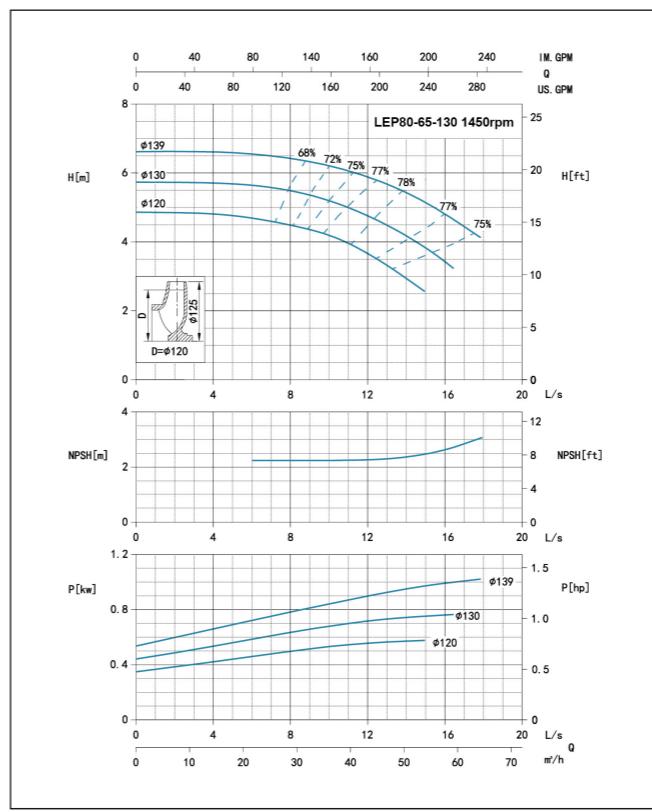
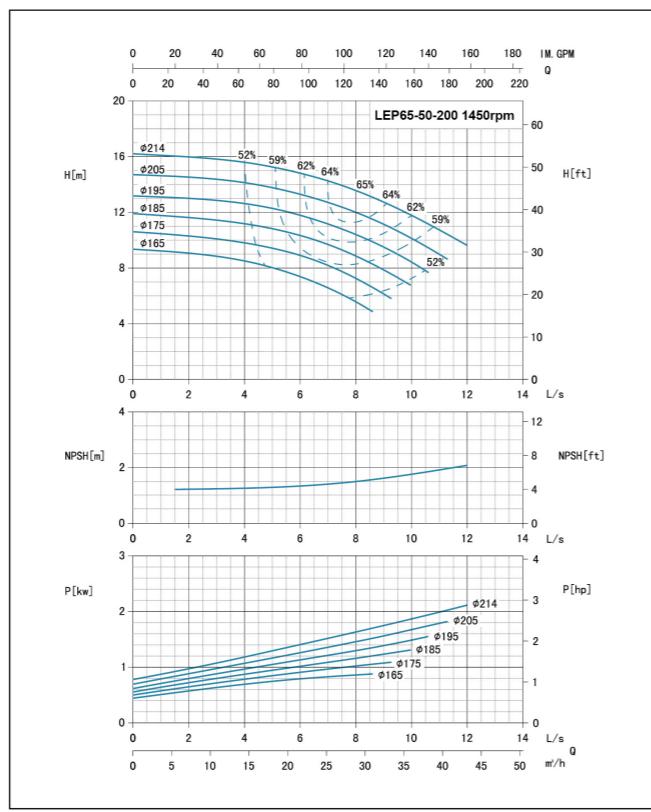
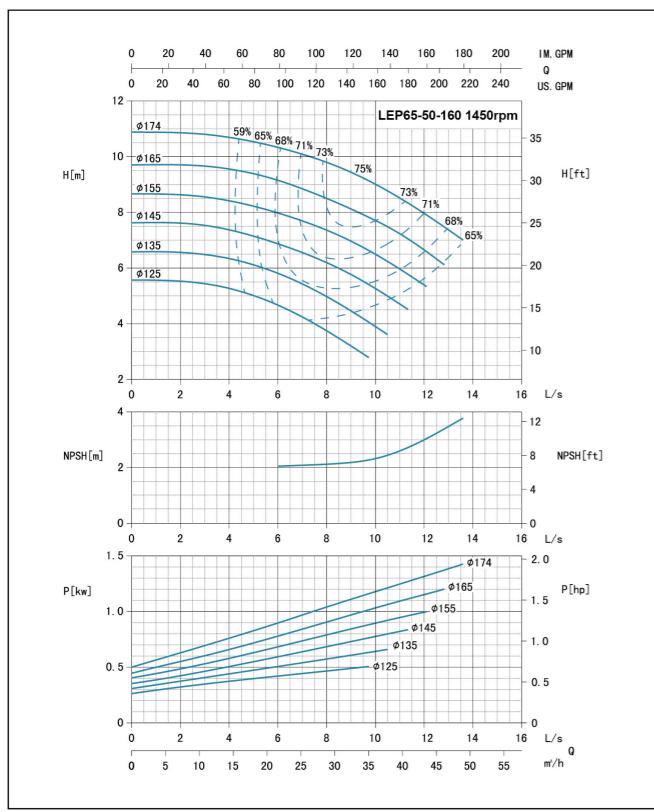
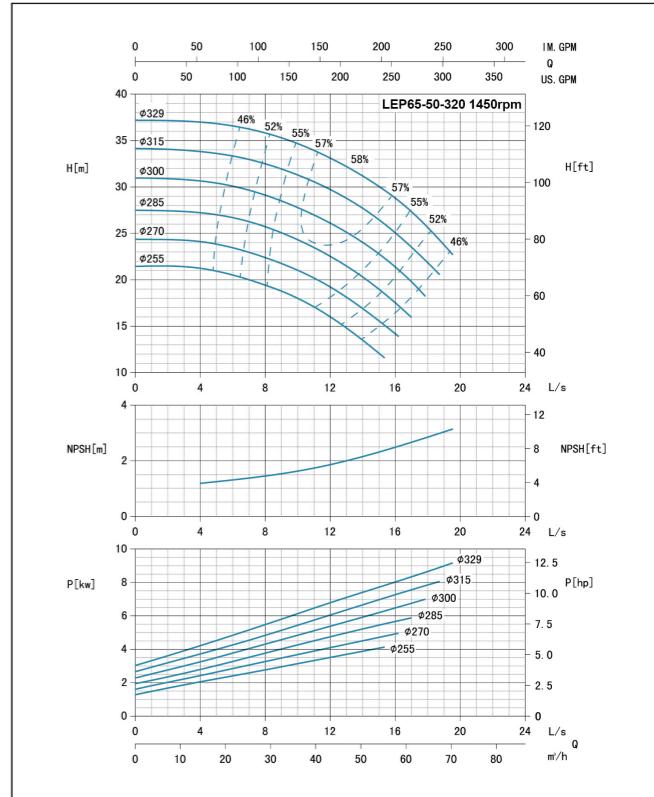
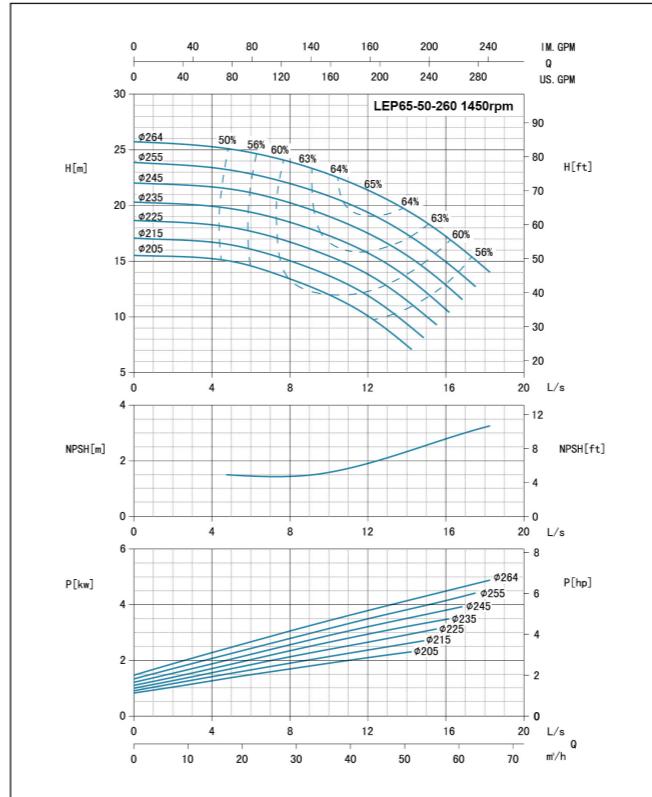
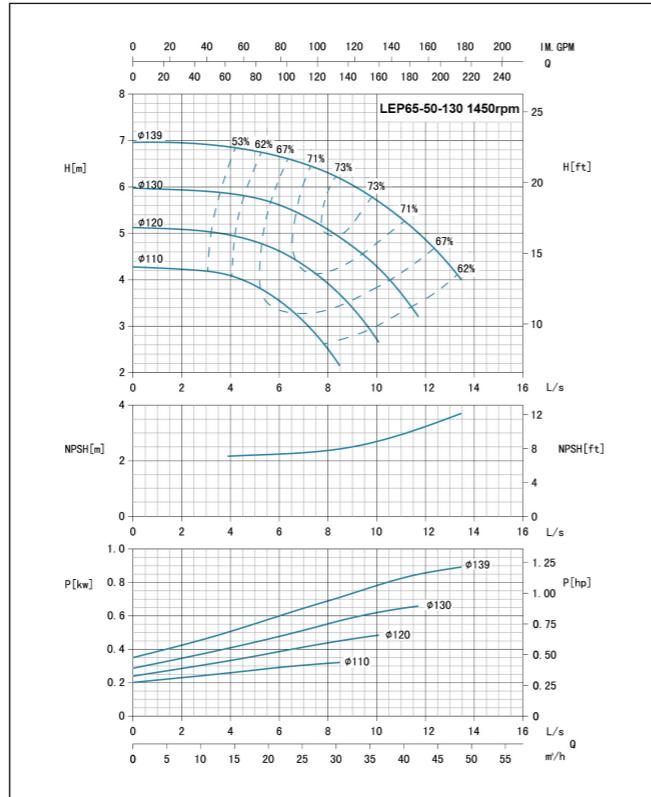
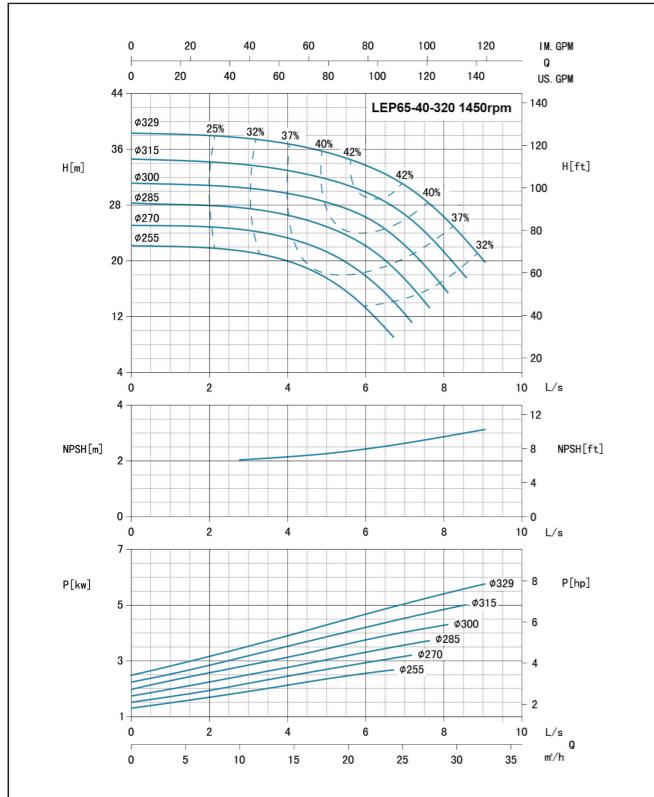
Model	Bearing ID (mm)	DN2	DN1	a	f	h1	h2	b	c	n3	m1	m2	n1	n2	S1	S2	w	d	l	t	u	Weight (Kg)
LEP50-32-130	25	32	50	80	360	112	140	50	14	100	100	70	190	140	14	14	267	24	50	27	8	29
LEP50-32-160						132	160				100	160	180	240	190							35
LEP50-32-200						180	225				100	180	225	320	250							47
LEP50-32-260						112	140				100	180	225	210	160							58
LEP65-40-130	25	40	65	80	360	112	140	50	14	100	100	70	240	190	14	14	342	32	80	35	10	31
LEP65-40-160						132	160				160	180	240	190	34							
LEP65-40-200						180	225				200	250	265	212	45							
LEP65-40-260(H)						200	250				200	250	320	250	61							
LEP65-40-320	35	45	65	100	470	200	250	65	14	125	125	95	345	280	14	14	367	42	110	45	12	94
LEP65-40-320(H)						200	250				200	250	342	280	107							
LEP65-40-320G						200	250				200	250	367	320	105							
LEP65-50-130	25	50	100	125	526	132	160	50	14	100	100	70	240	190	14	14	267	24	50	27	8	35
LEP65-50-160						160	180				160	200	265	212	39							
LEP65-50-200						180	225				180	225	320	250	49							
LEP65-50-260(H)						180	225				180	225	344	320	68							
LEP65-50-260G	35	50	125	125	470	180	225	65	18	100	100	70	265	212	14	14	367	42	110	45	12	65
LEP65-50-320(H)						180	225				180	225	342	320	113							
LEP65-50-320G						180	225				180	225	367	320	105							
LEP65-50-320G						180	225				180	225	267	240	41							
LEP80-65-130	25	65	100	125	526	160	180	65	14	100	100	70	280	212	14	14	342	32	80	35	10	47
LEP80-65-160						160	200				160	200	320	250	55							
LEP80-65-200(H)						180	225				180	225	342	320	60							
LEP80-65-200G						180	225				180	225	367	320	110							
LEP80-65-260	35	80	125	125	470	200	250	80	18	100	100	70	360	280	14	14	342	32	80	35	10	87
LEP80-65-320(H)						200	250				200	250	342	320	120							
LEP80-65-320G						200	250				200	250	367	320	120							
LEP100-80-160	25	80	125	125	470	180	225	65	14	100	100	70	320	250	14	14	342	32	80	35	10	76
LEP100-80-200						180	225				180	225	342	320	95							
LEP100-80-260(H)						180	225				180	225	367	320								

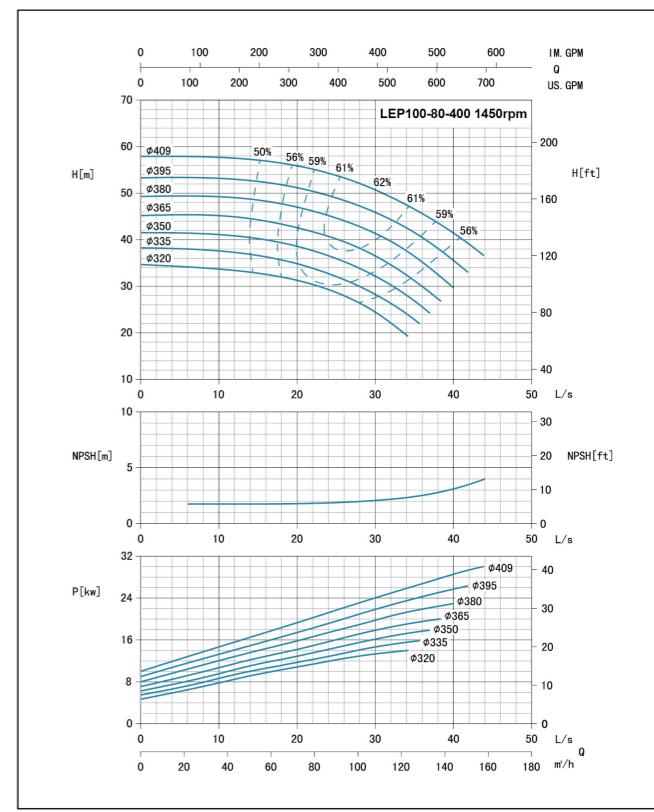
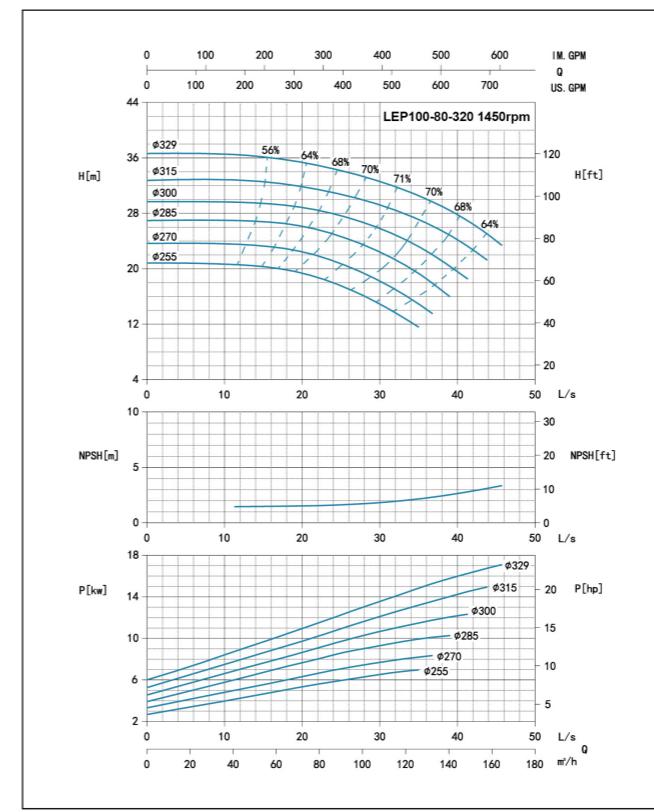
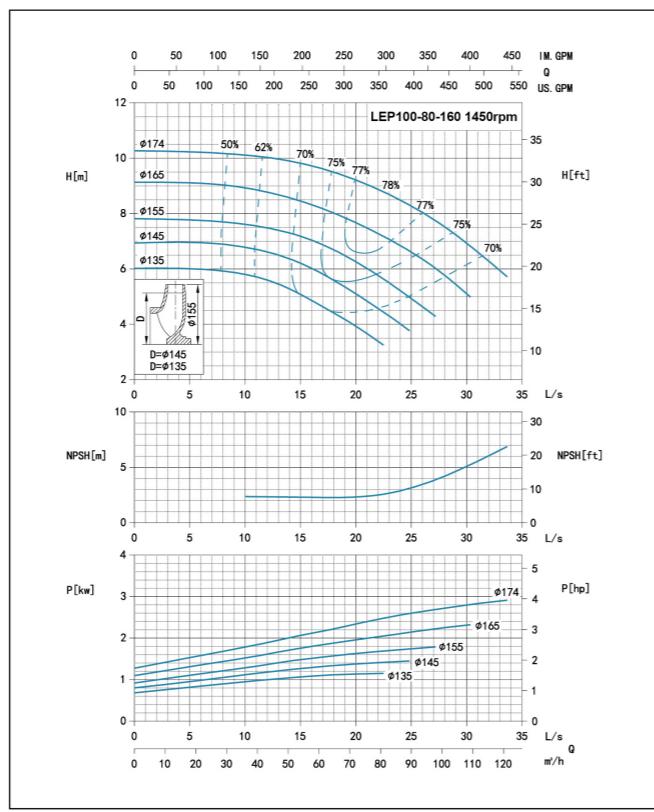
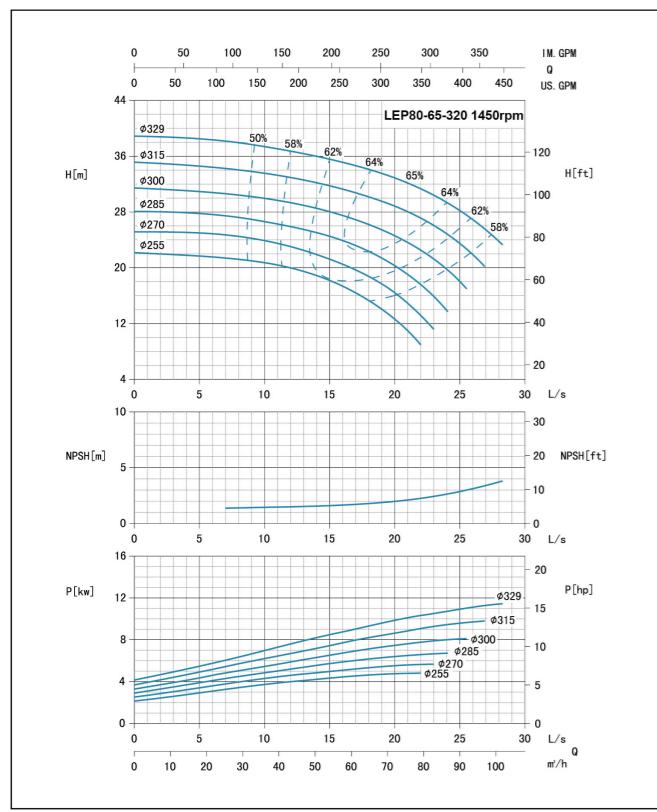
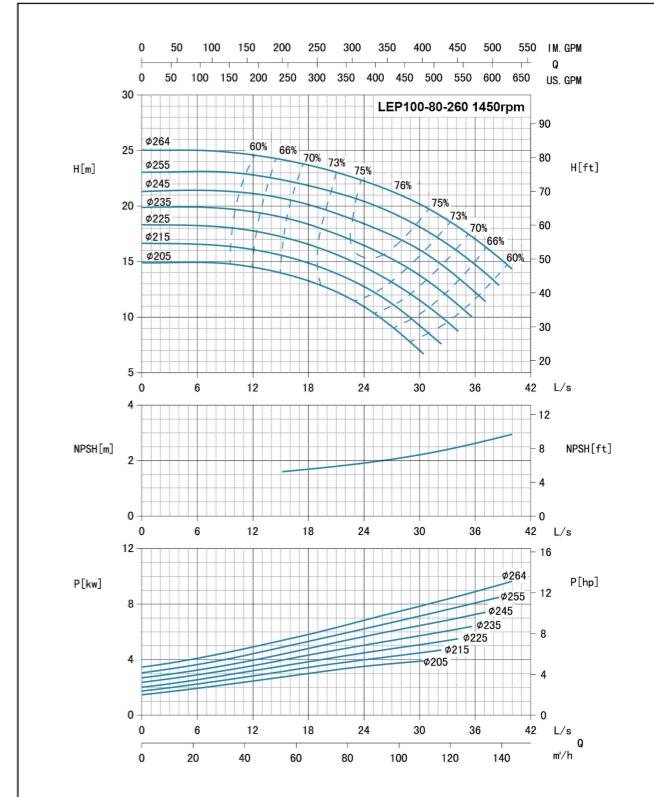
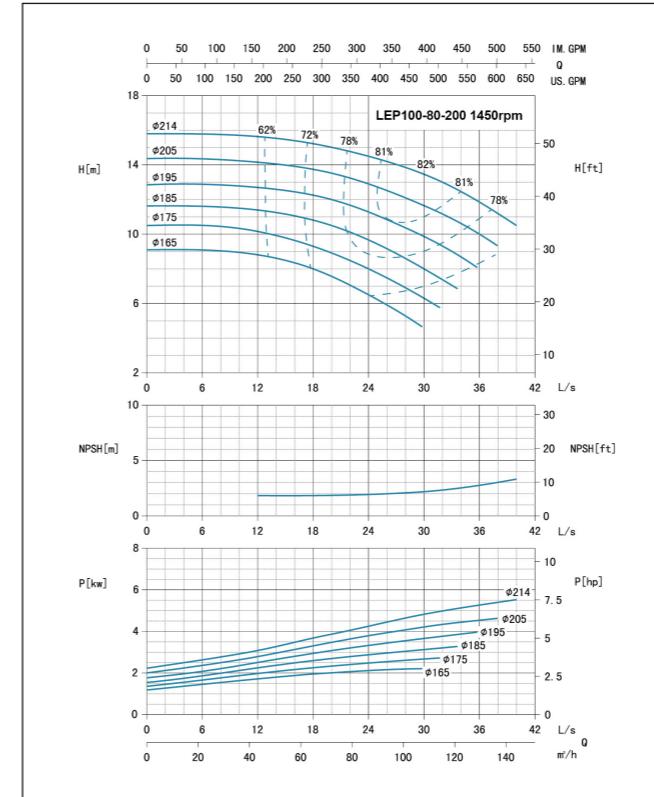
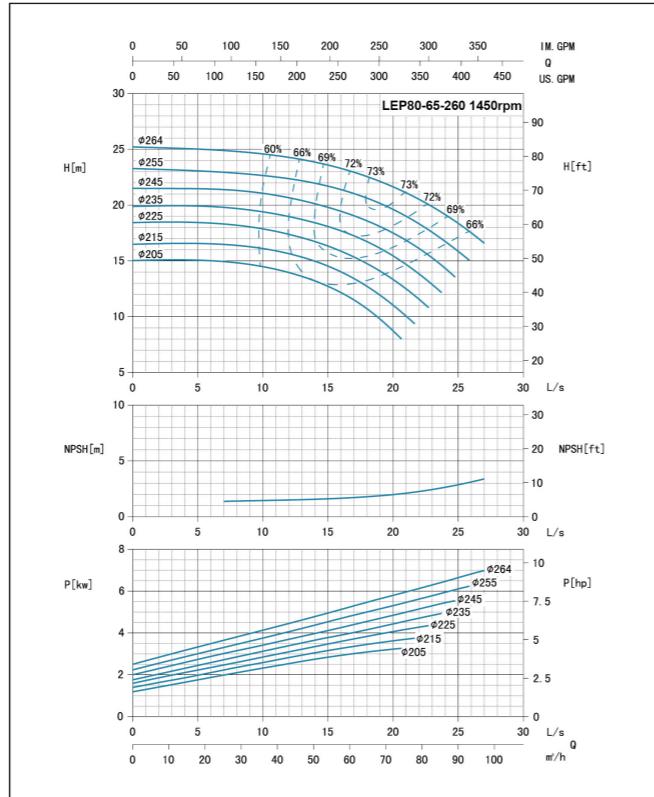
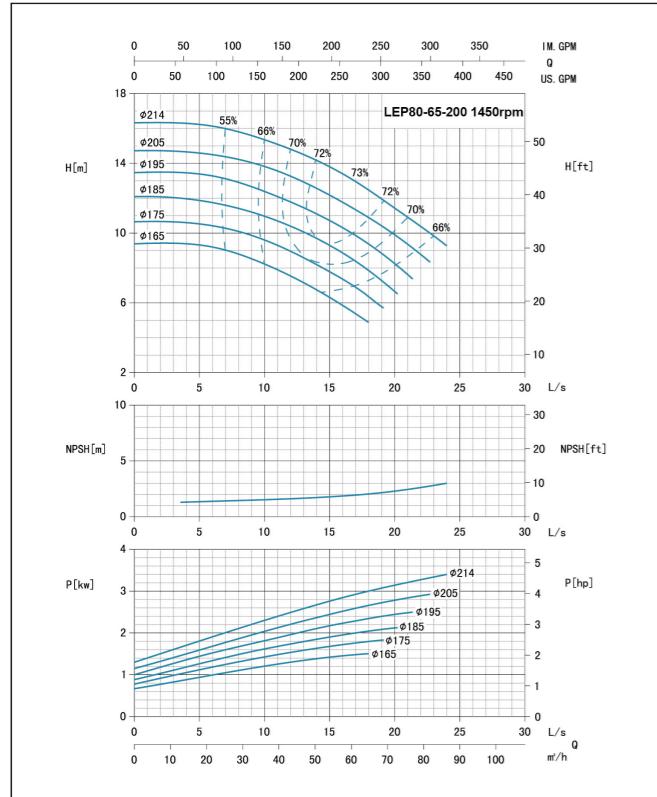


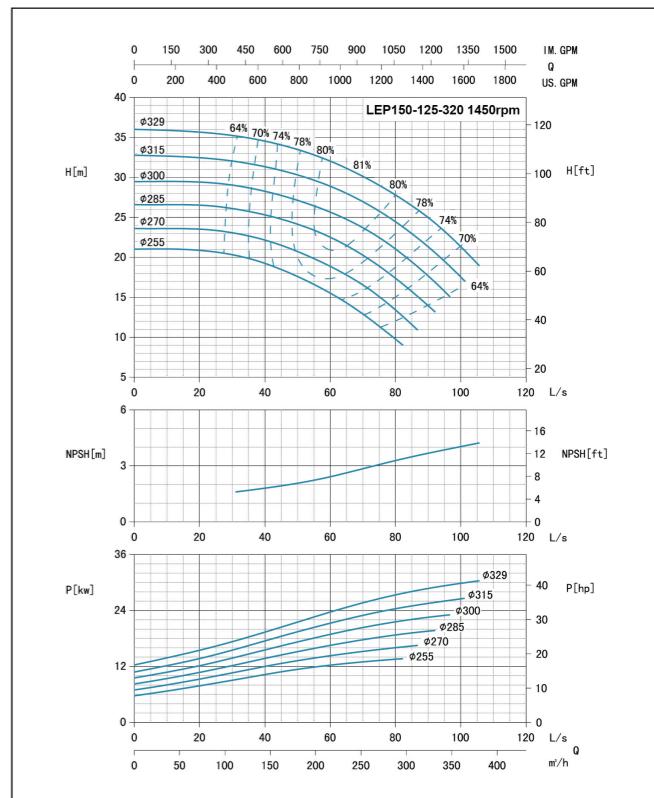
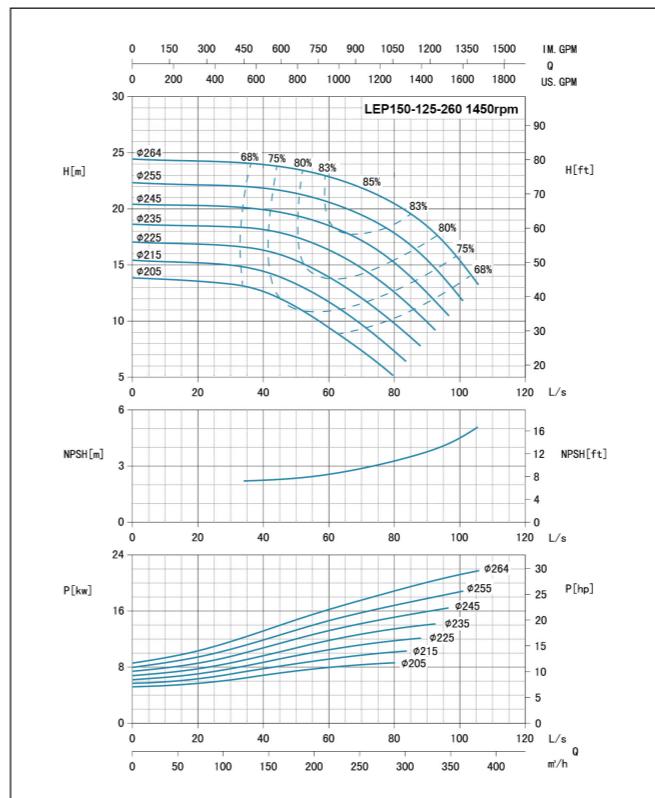
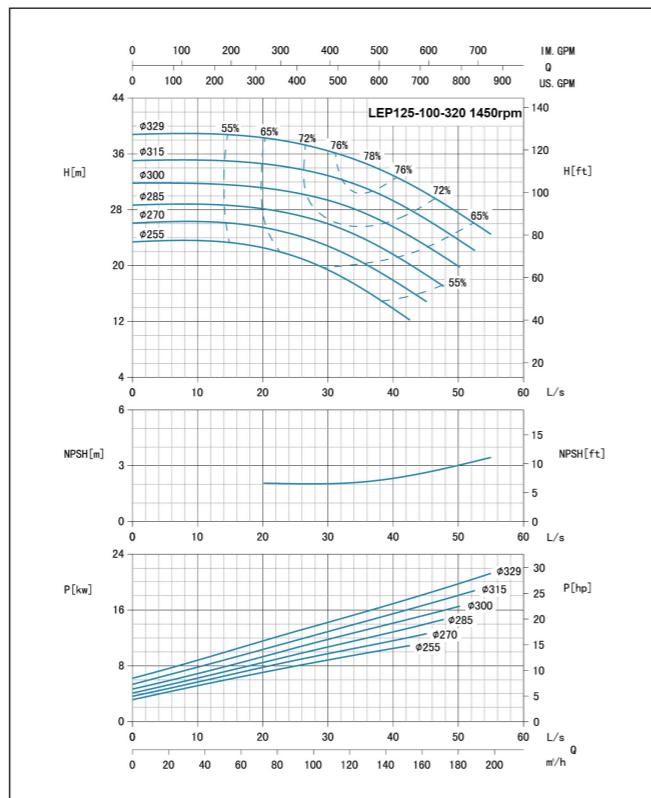
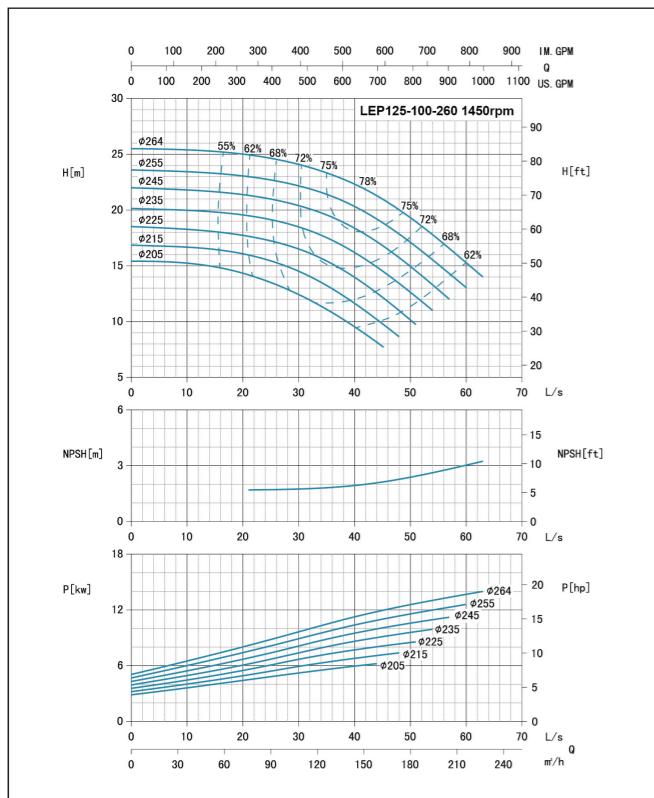
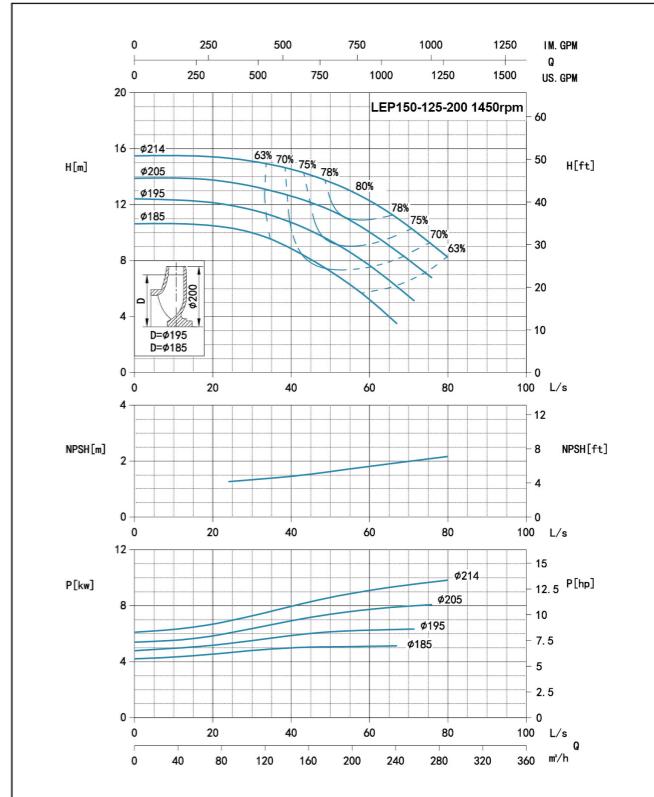
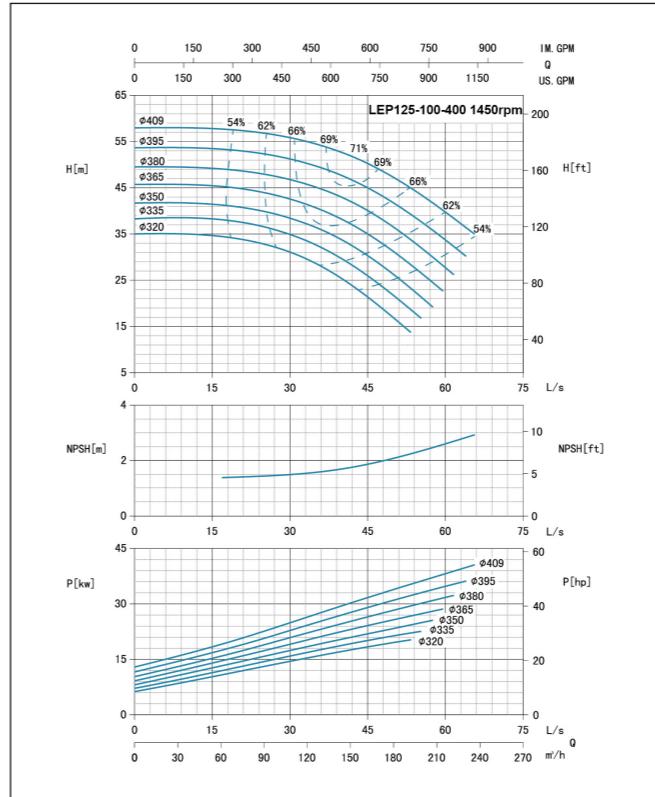
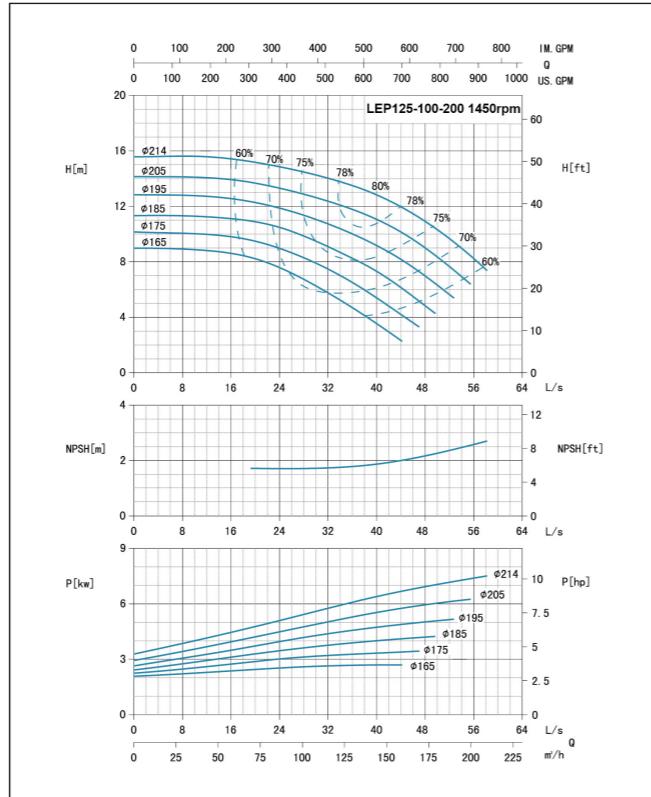
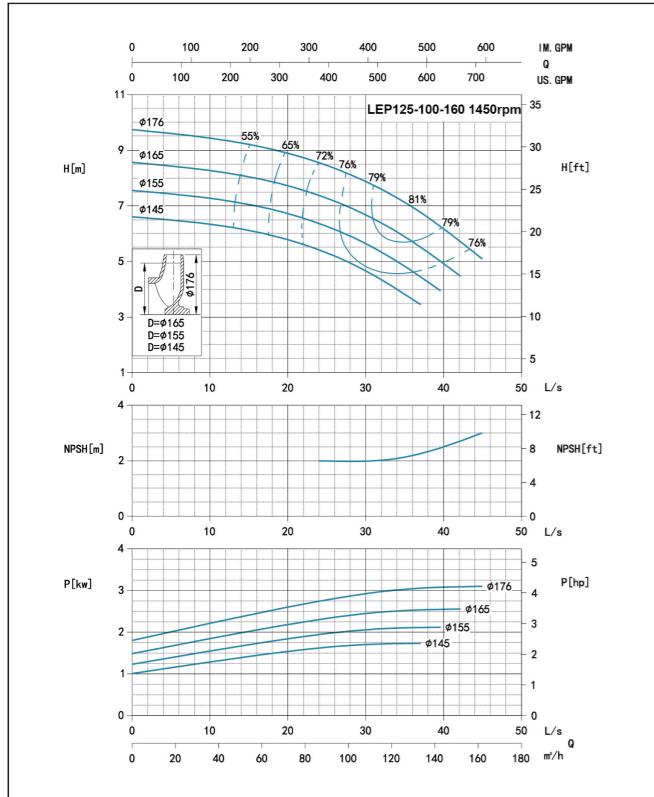


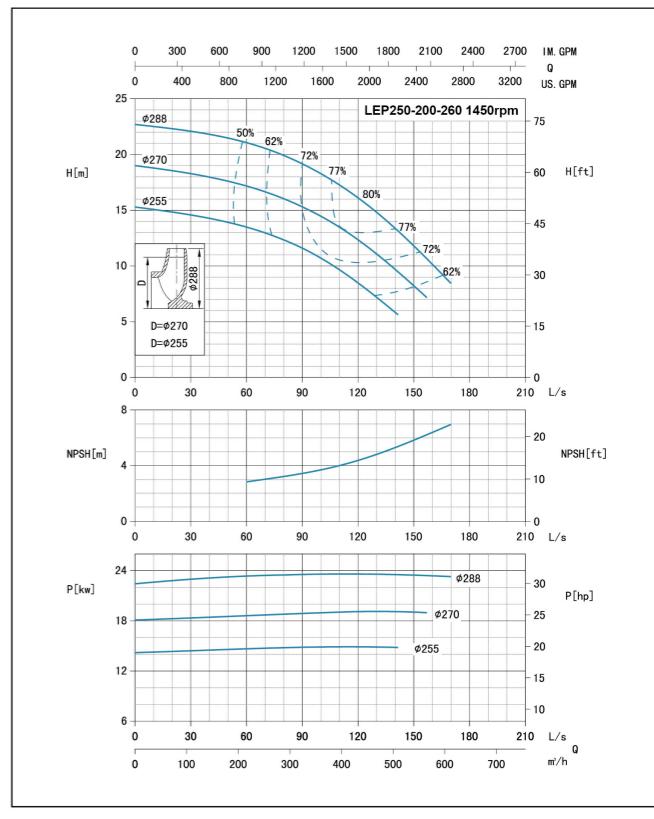
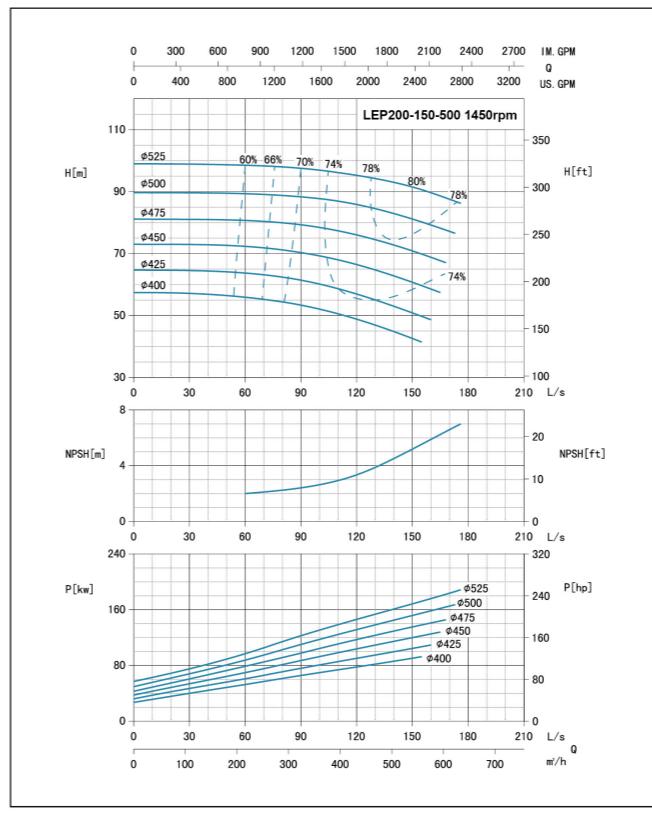
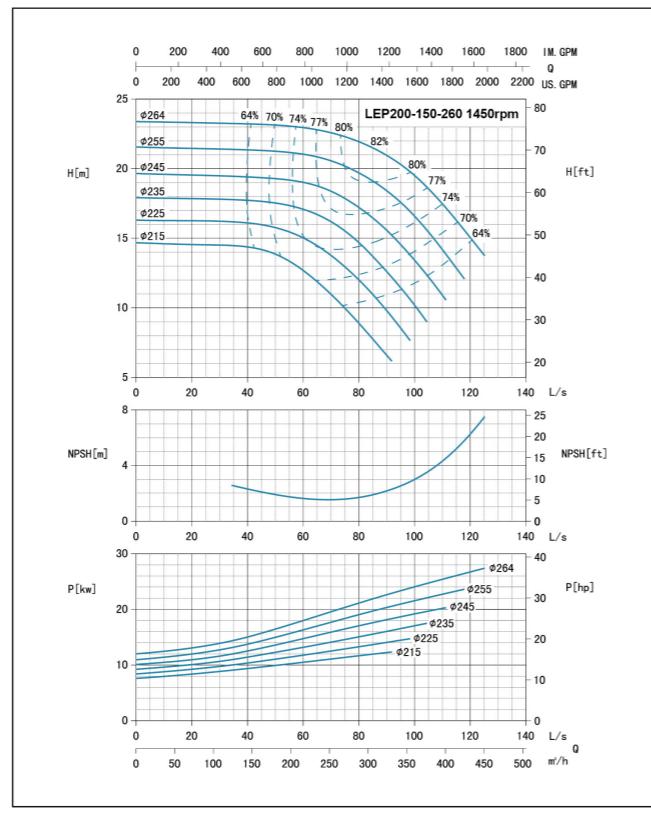
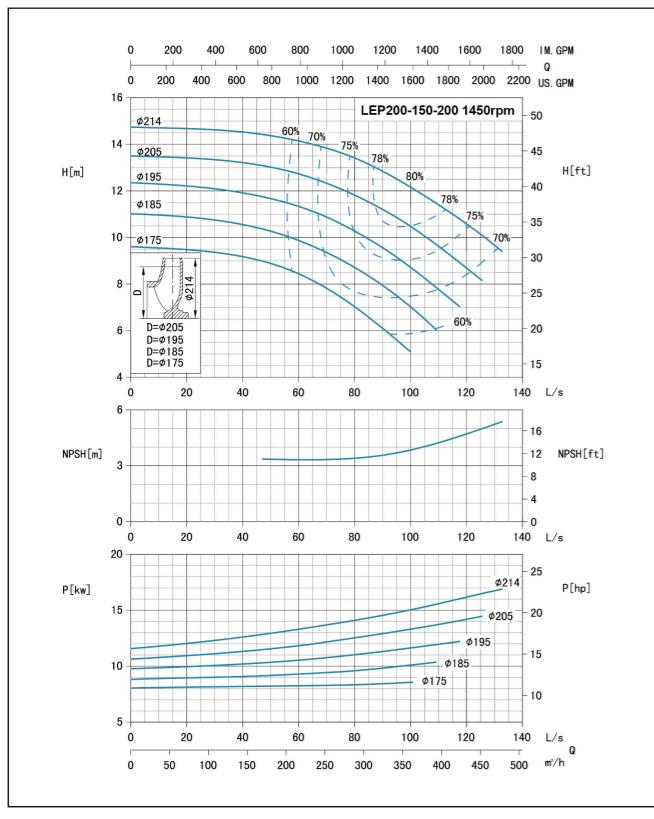
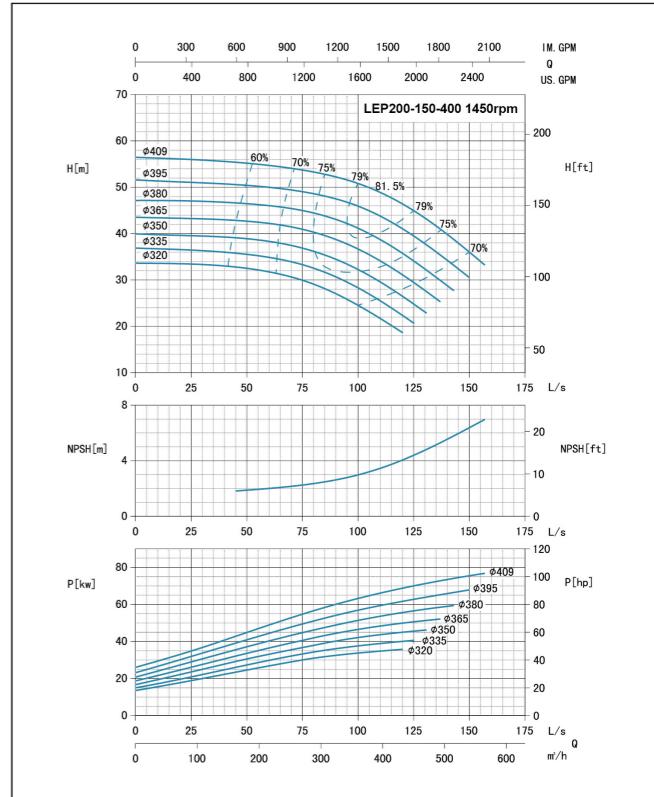
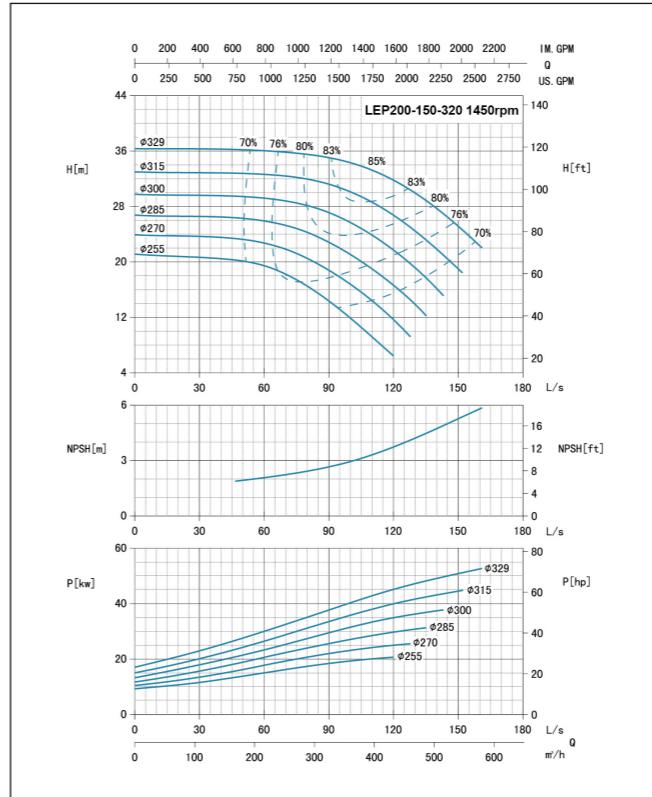
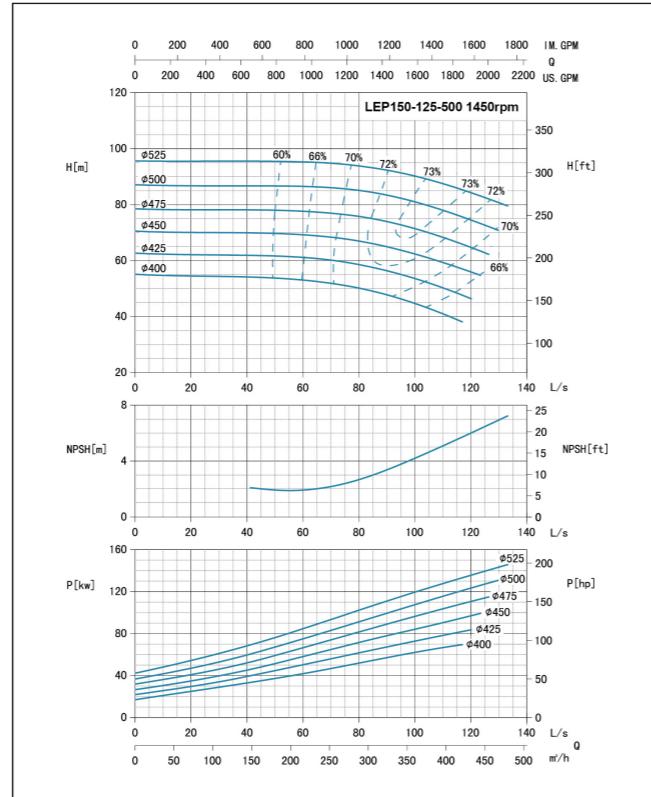
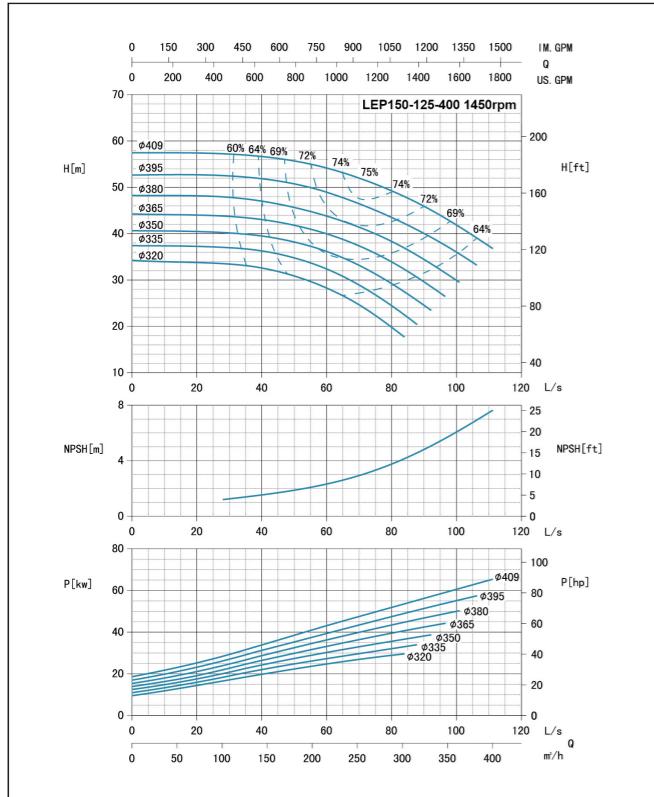


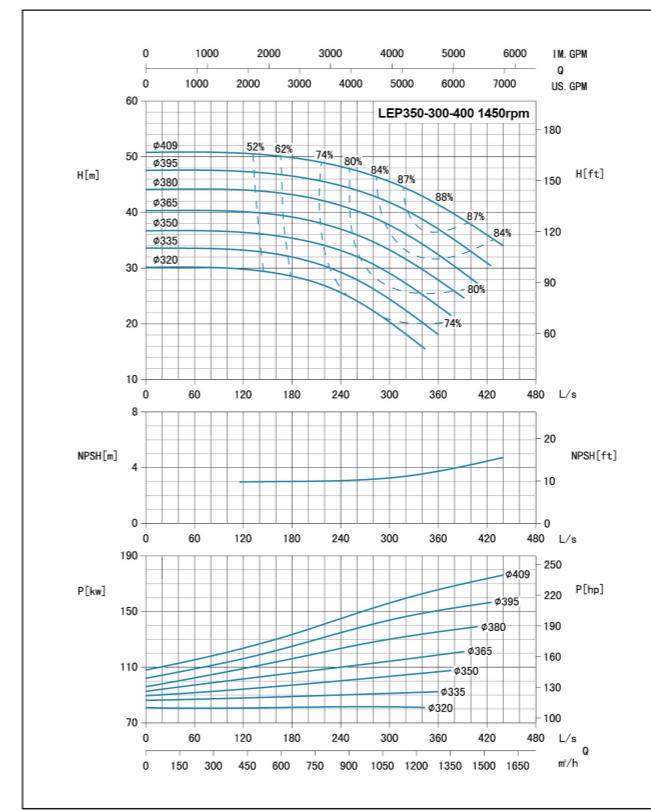
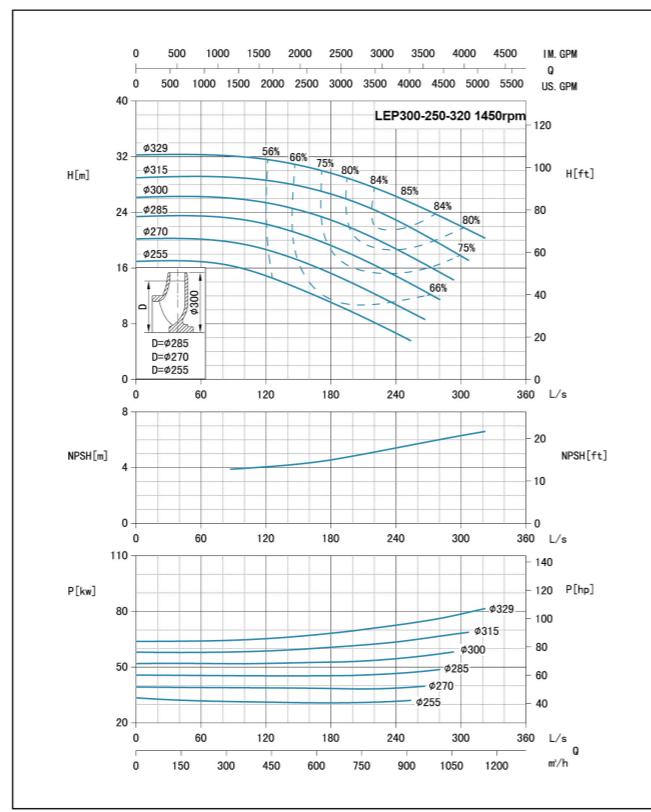
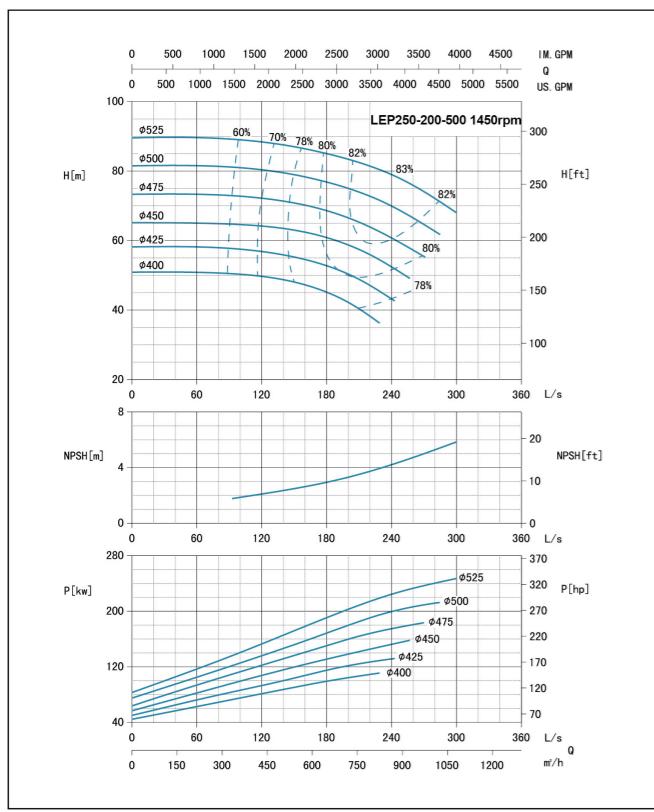
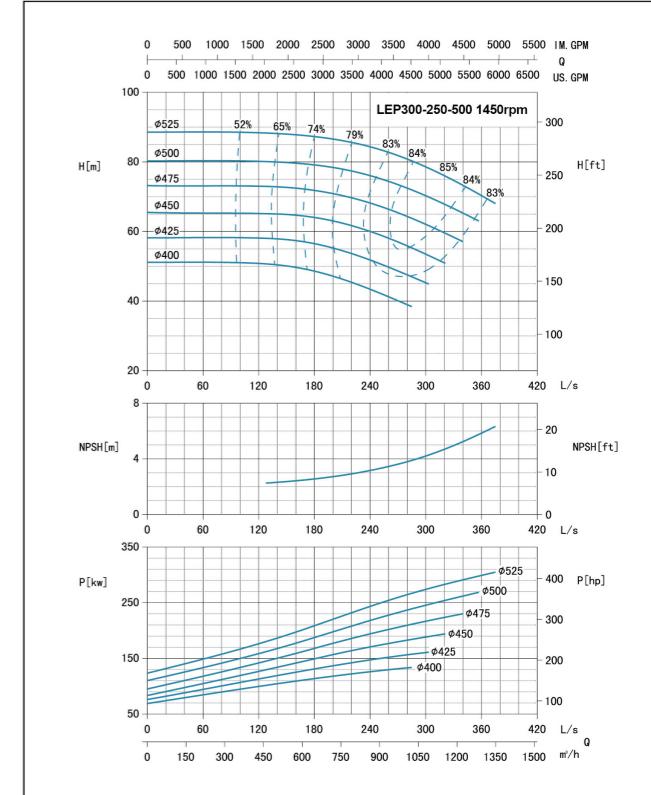
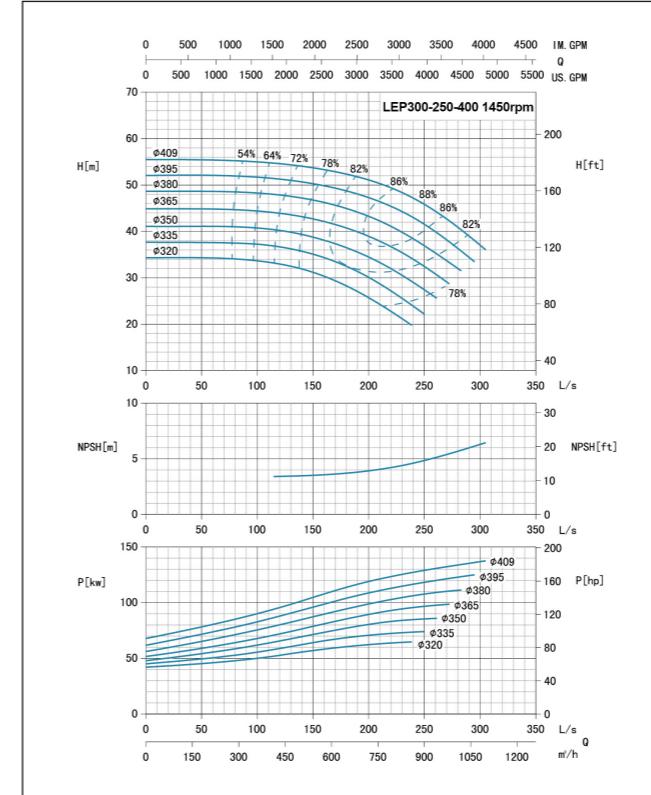
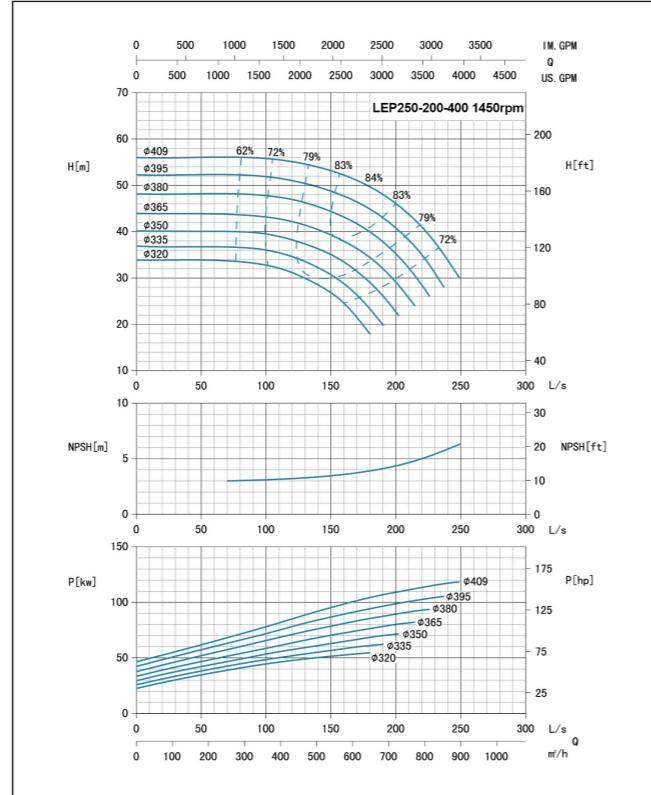
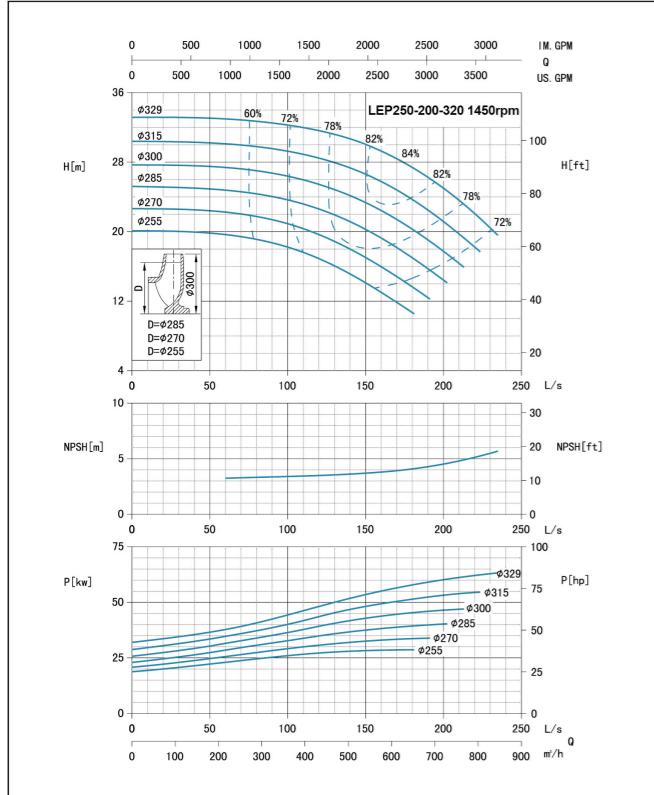


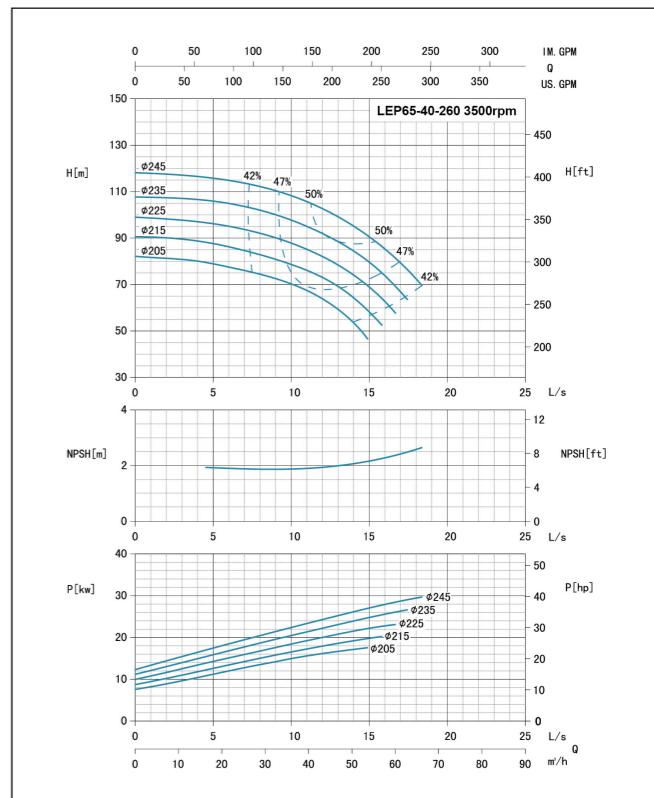
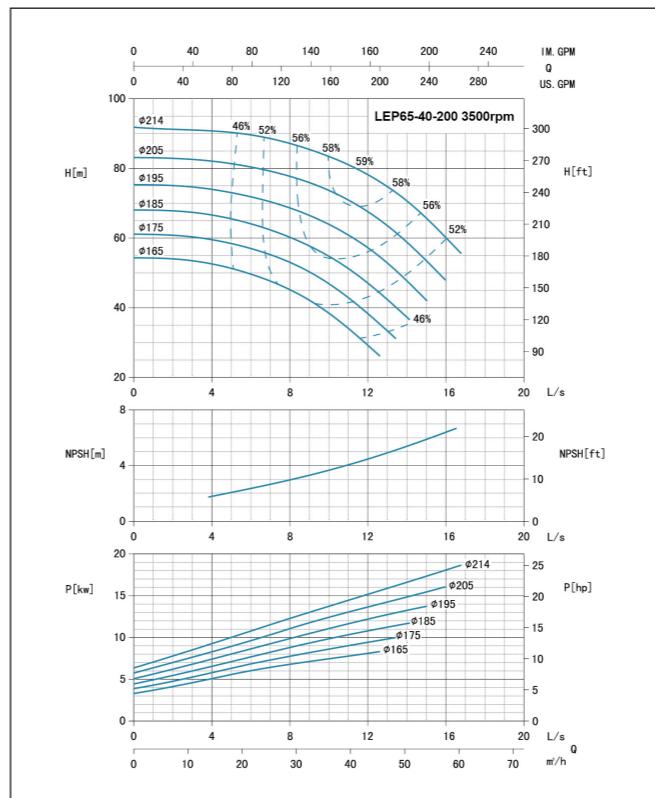
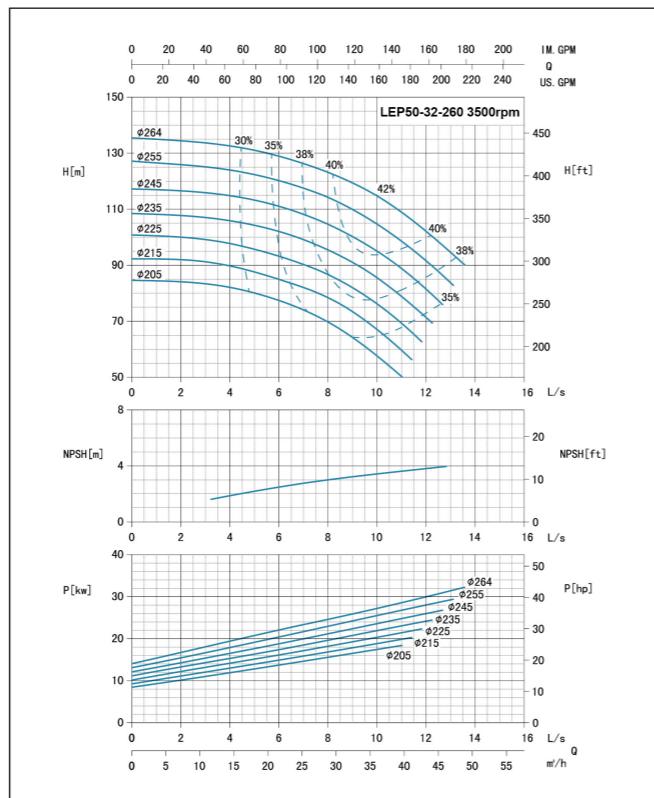
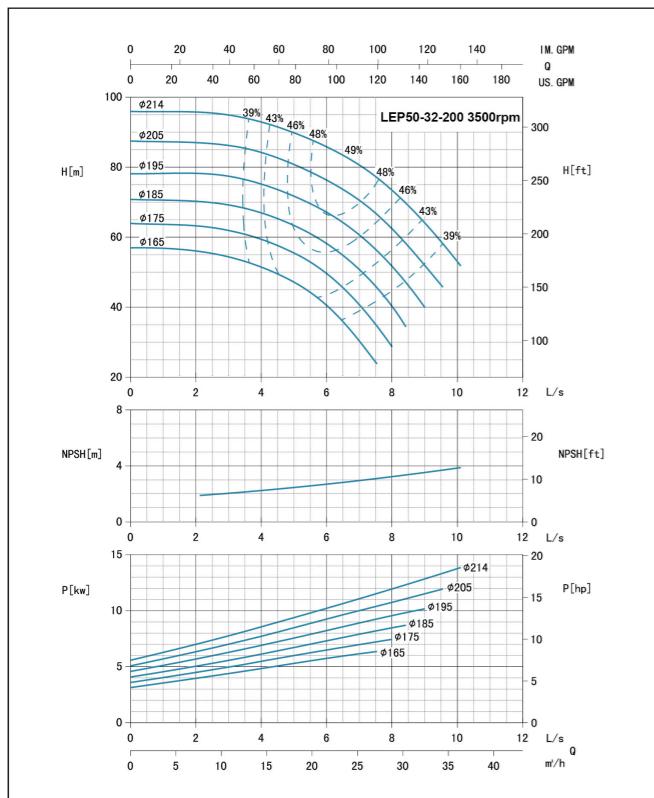
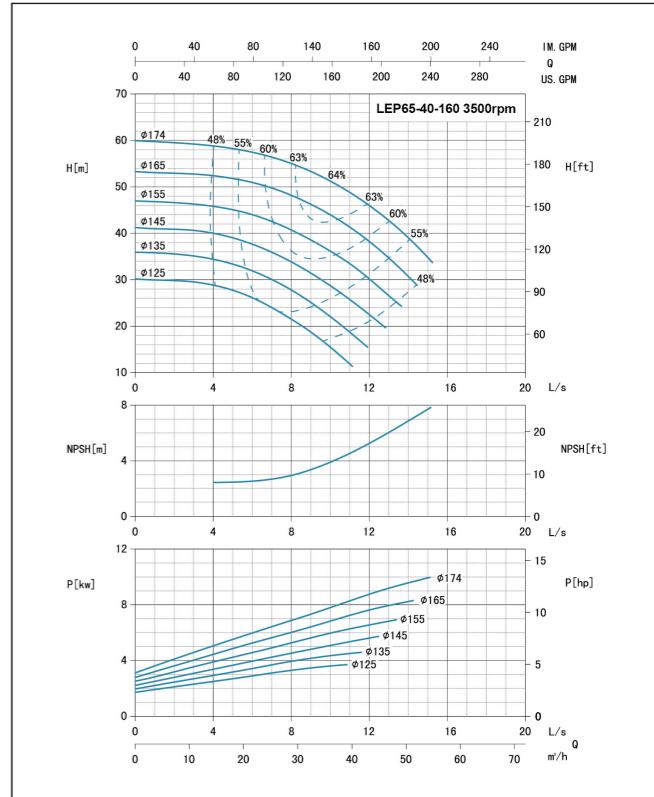
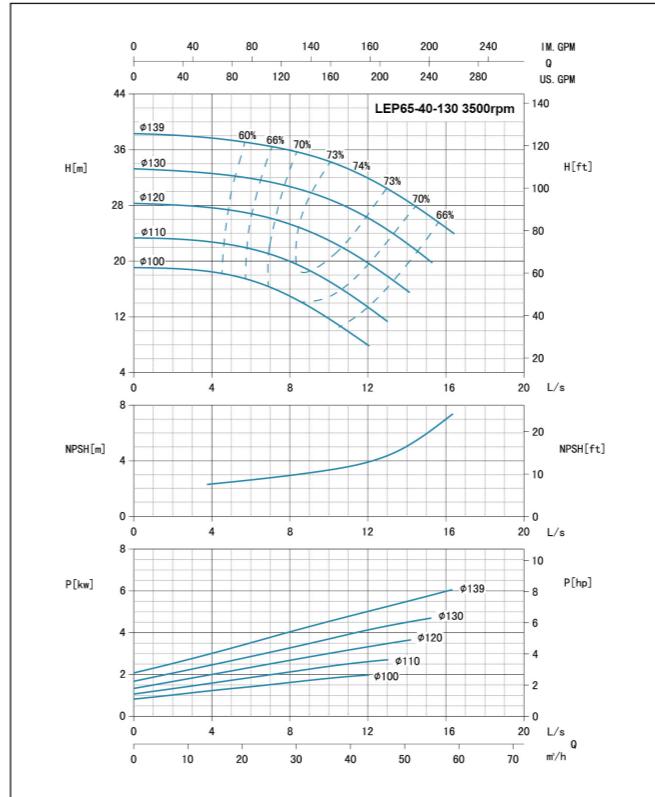
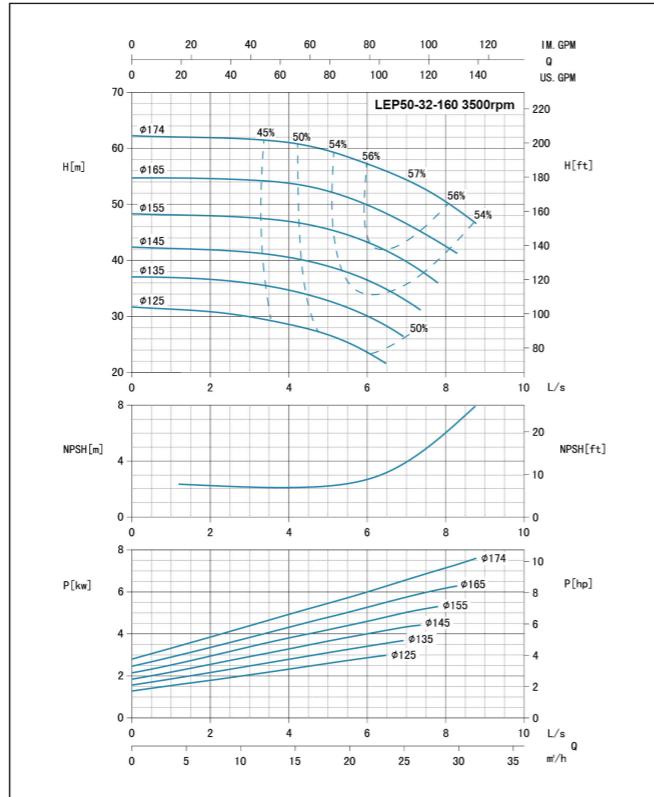
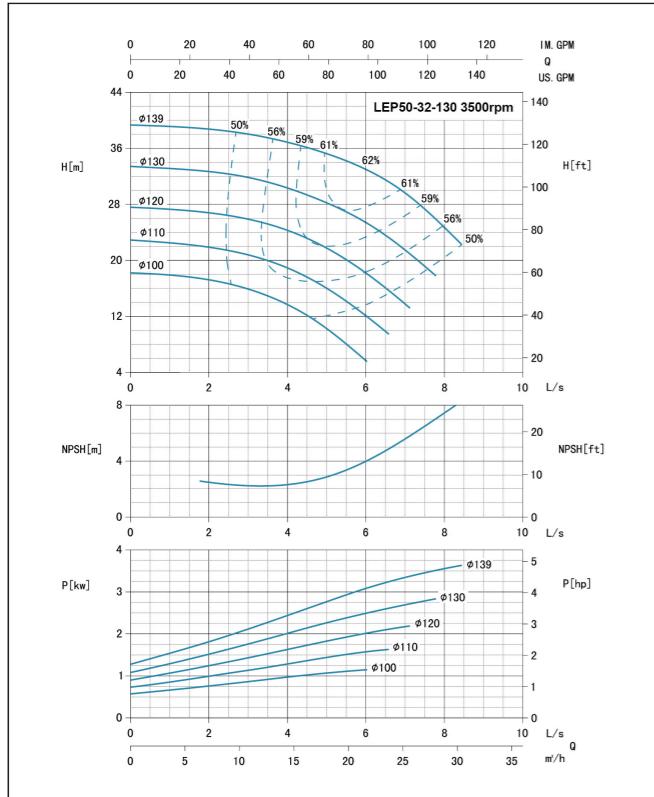


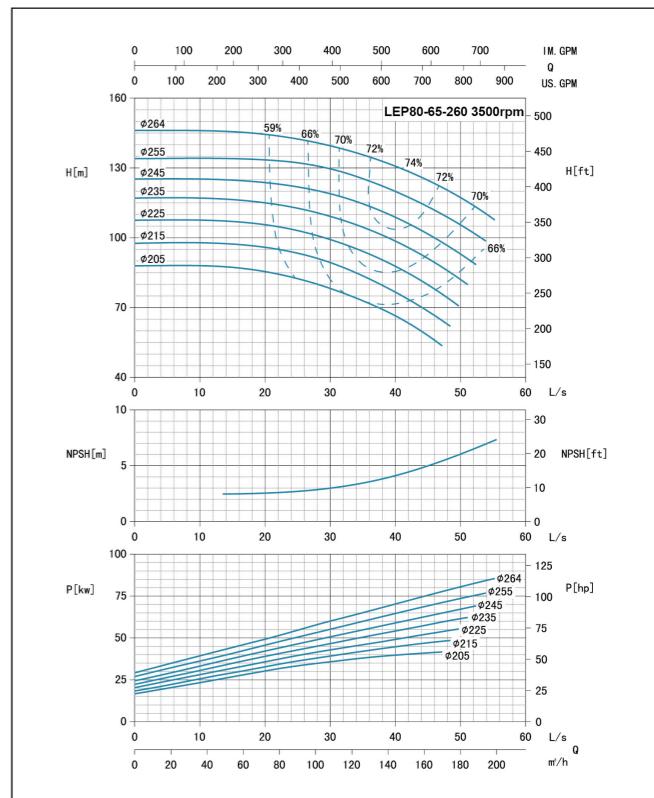
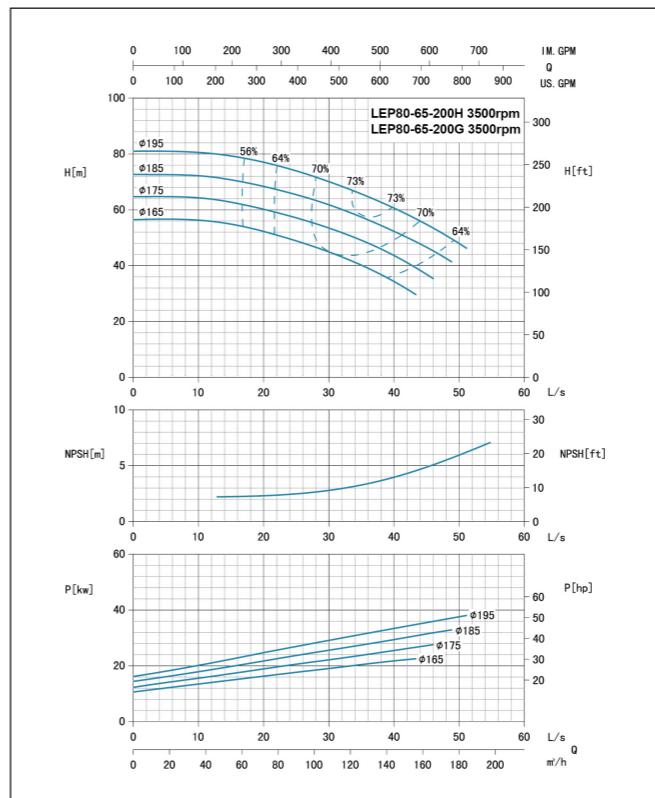
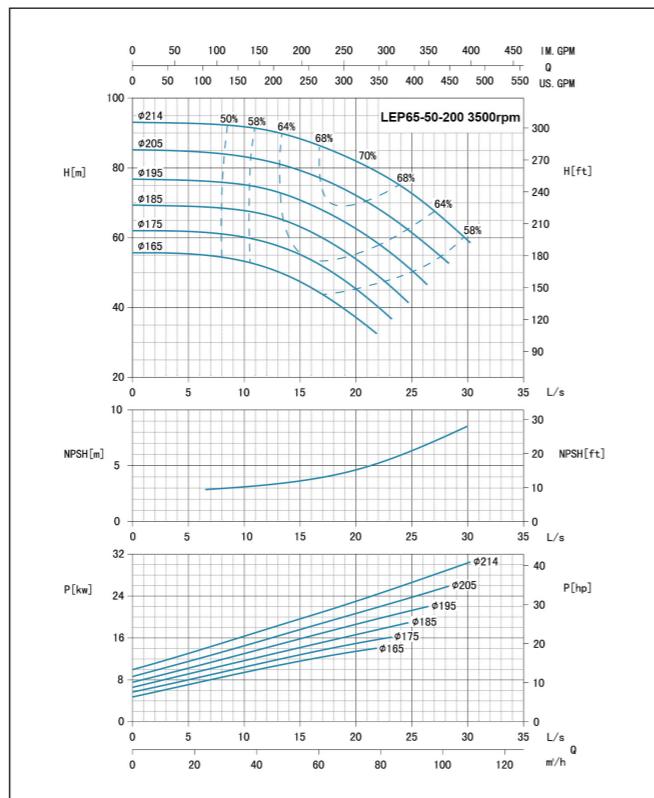
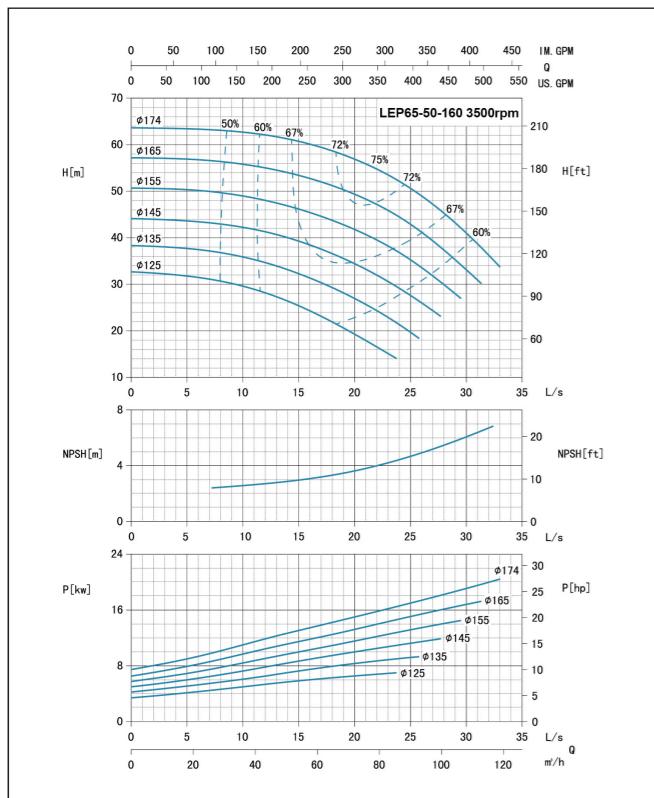
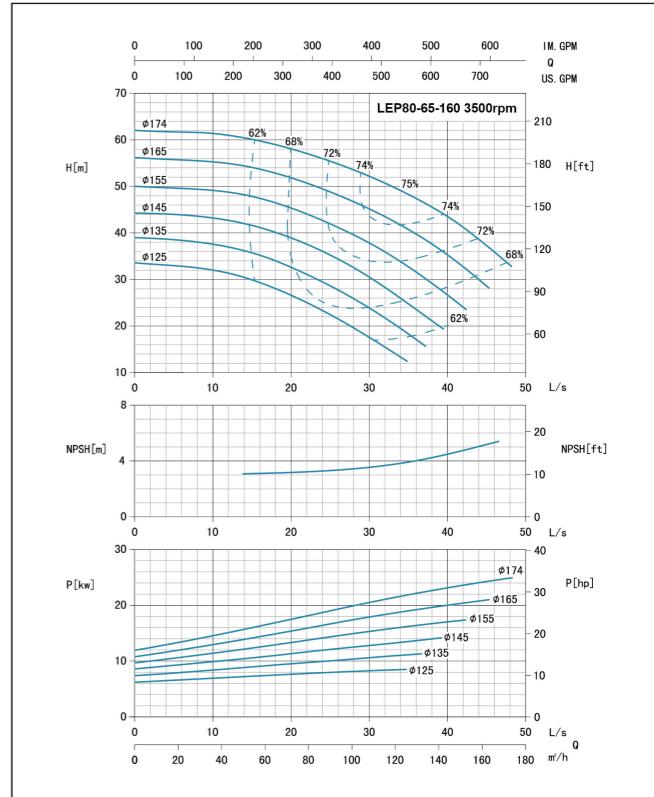
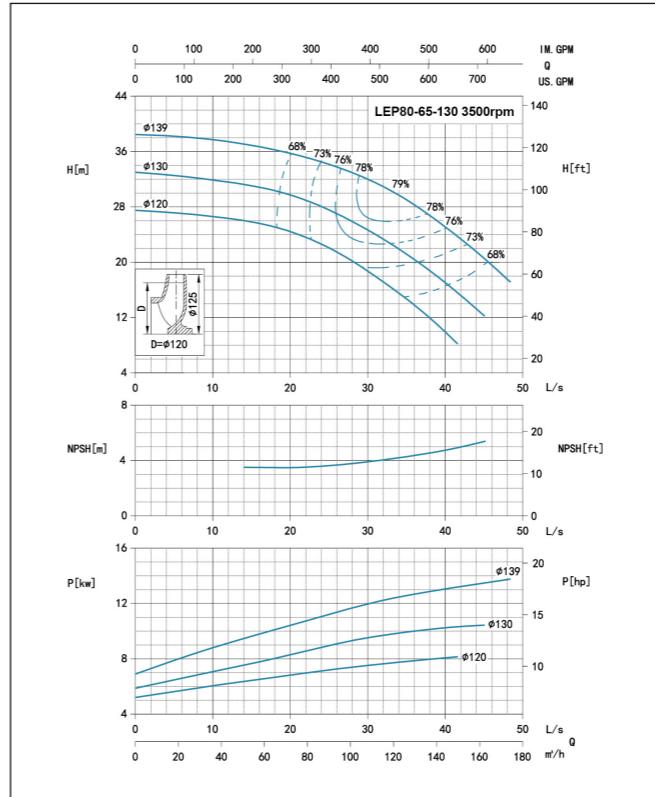
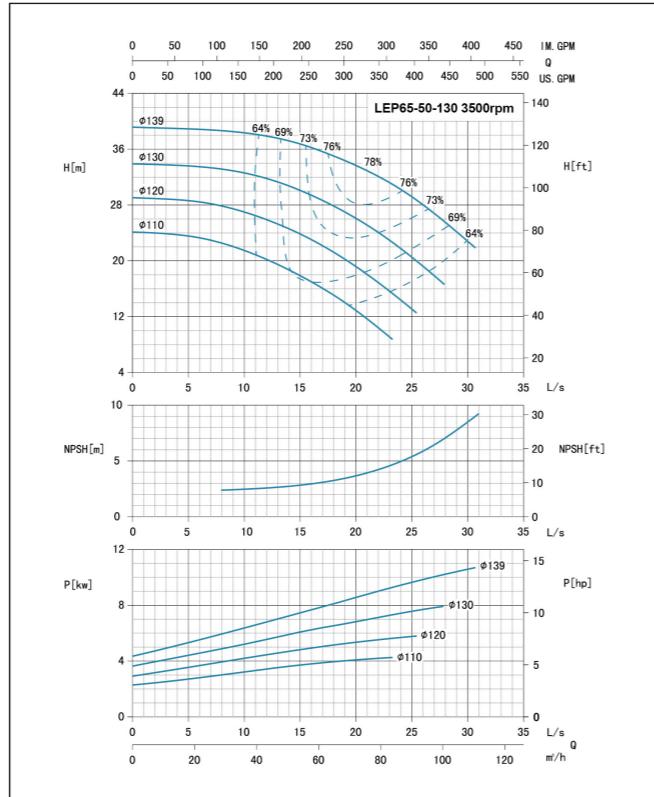
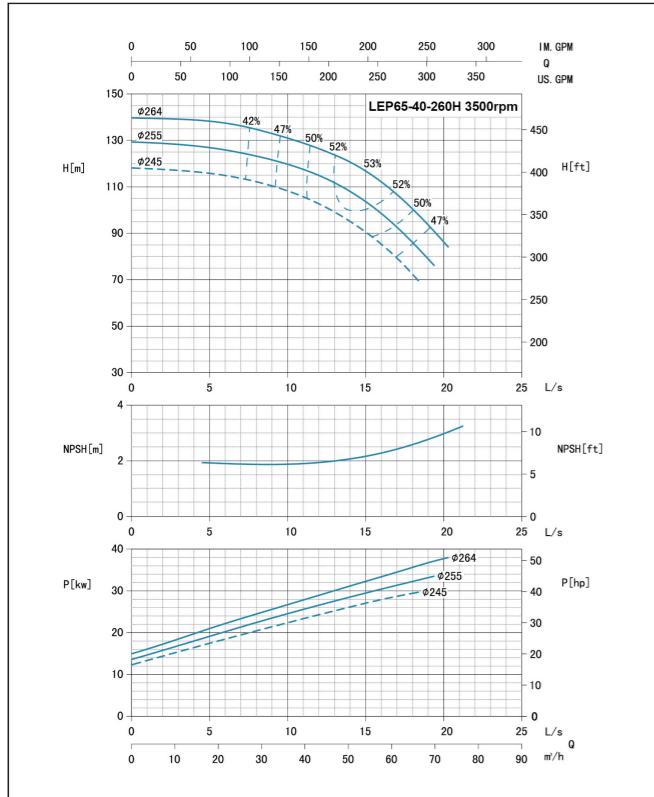


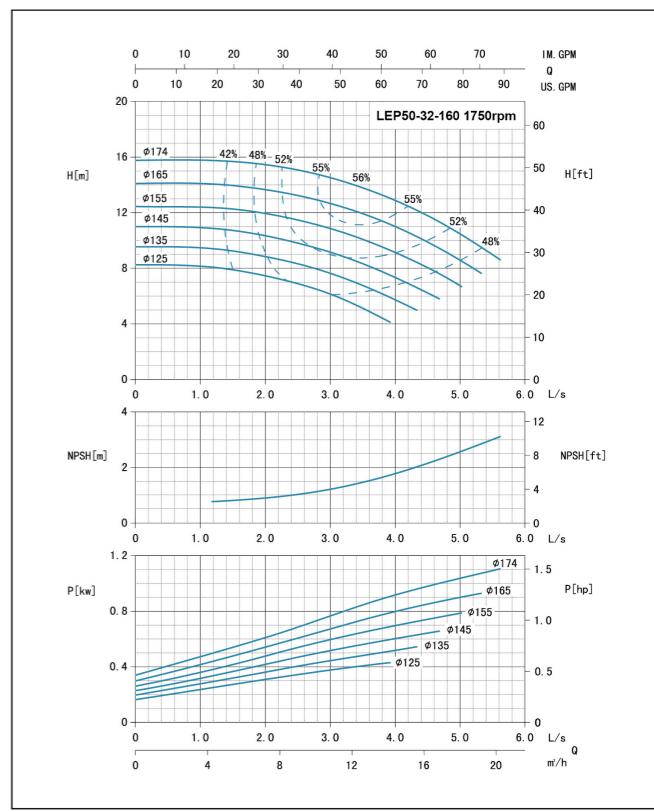
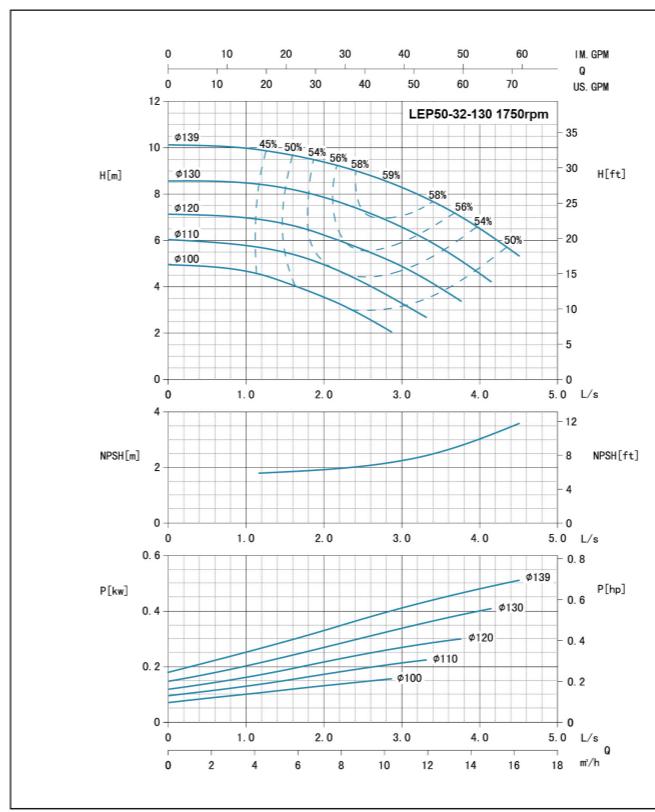
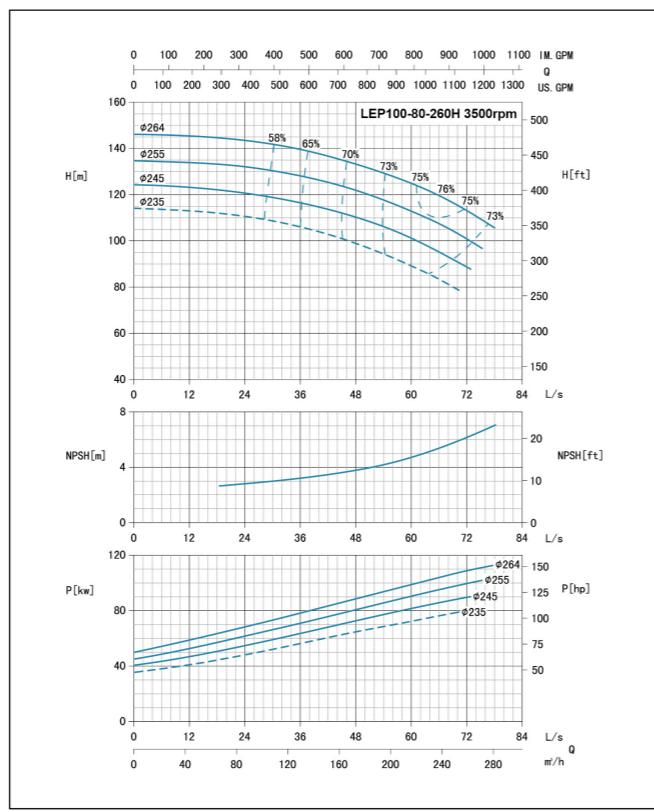
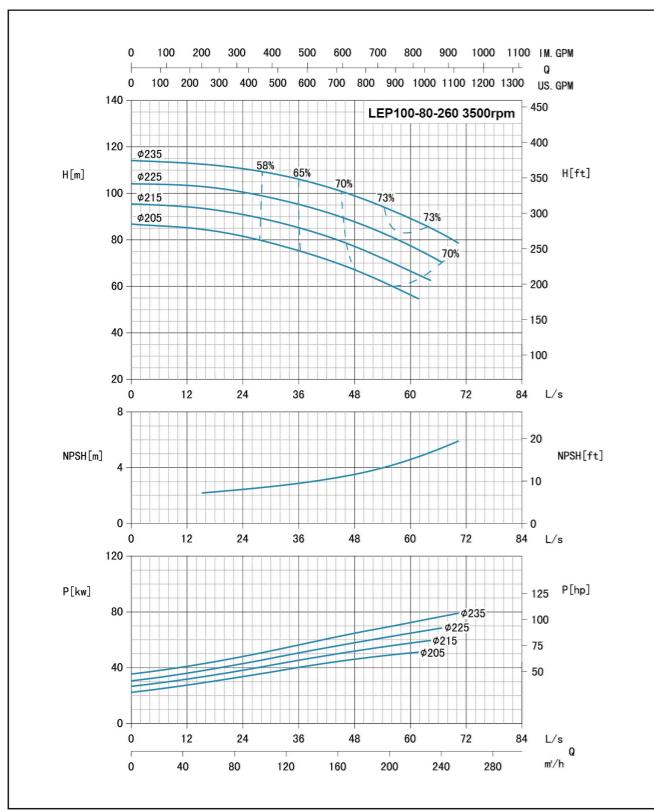
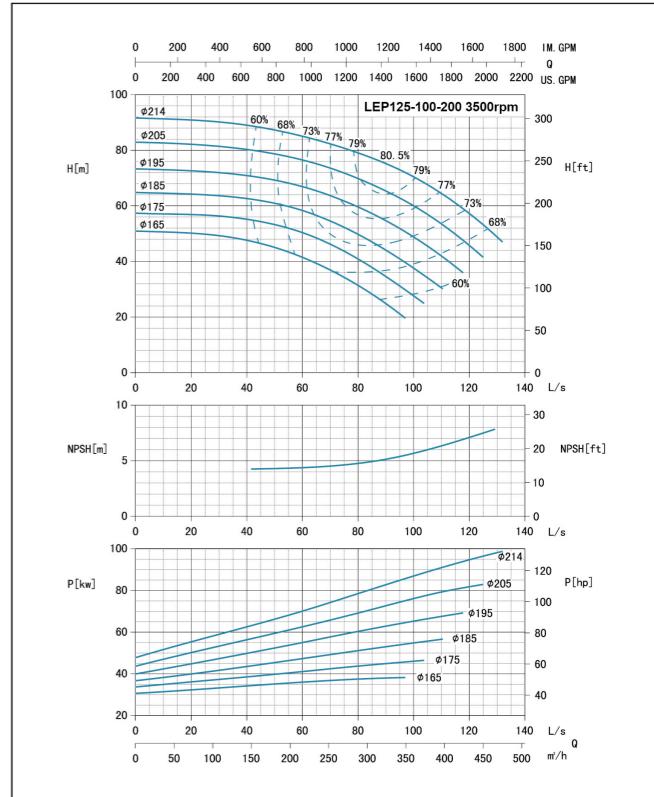
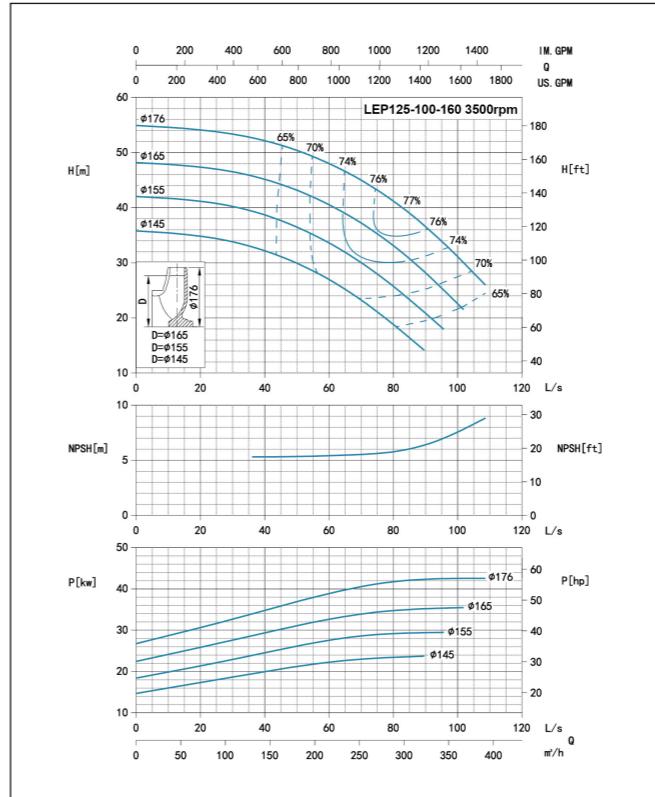
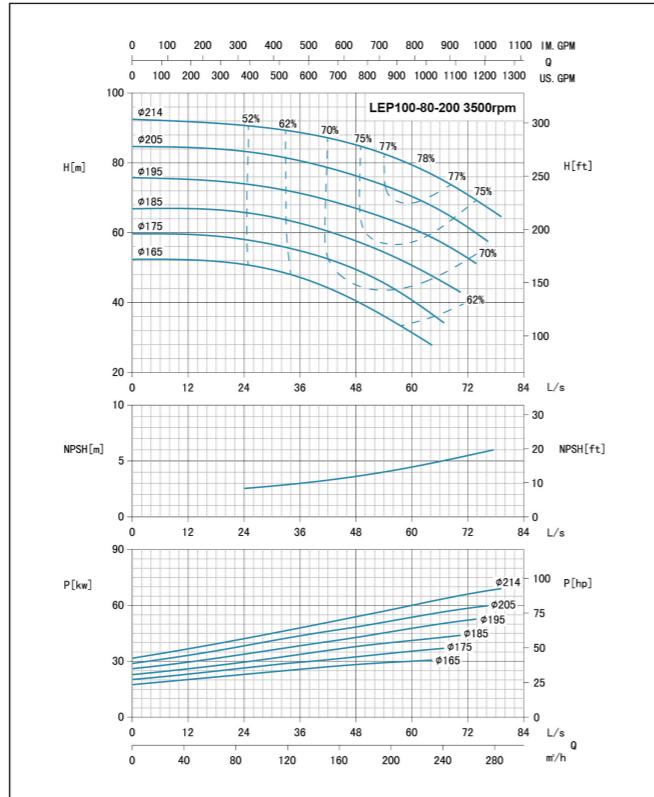
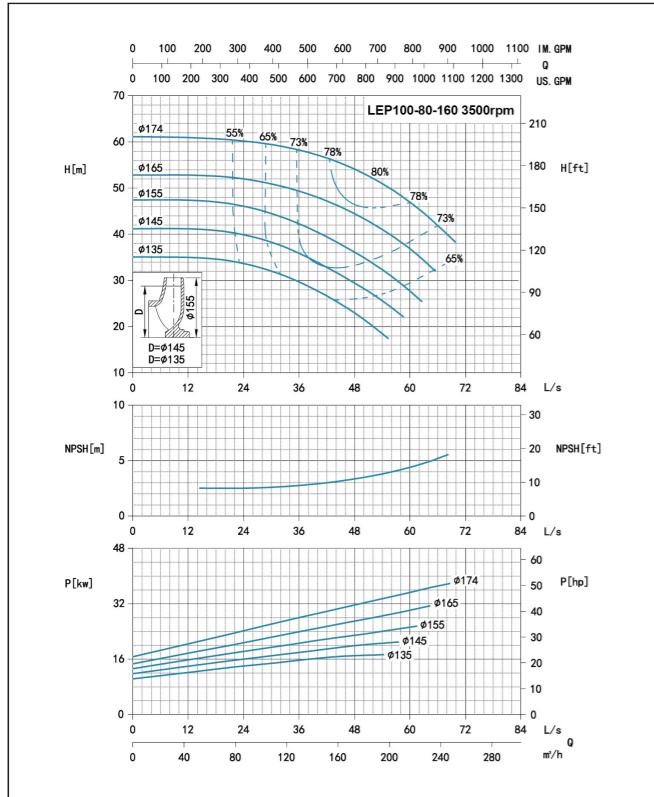


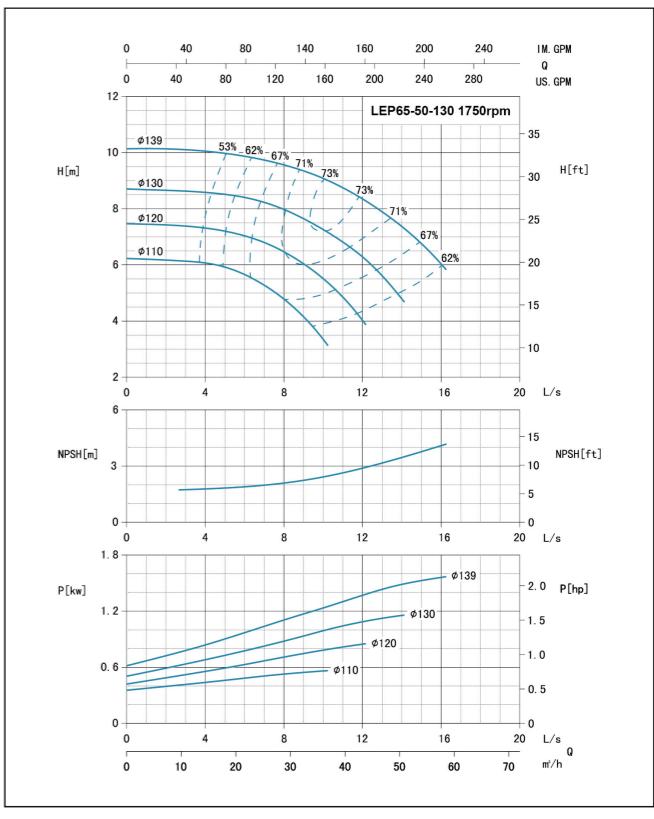
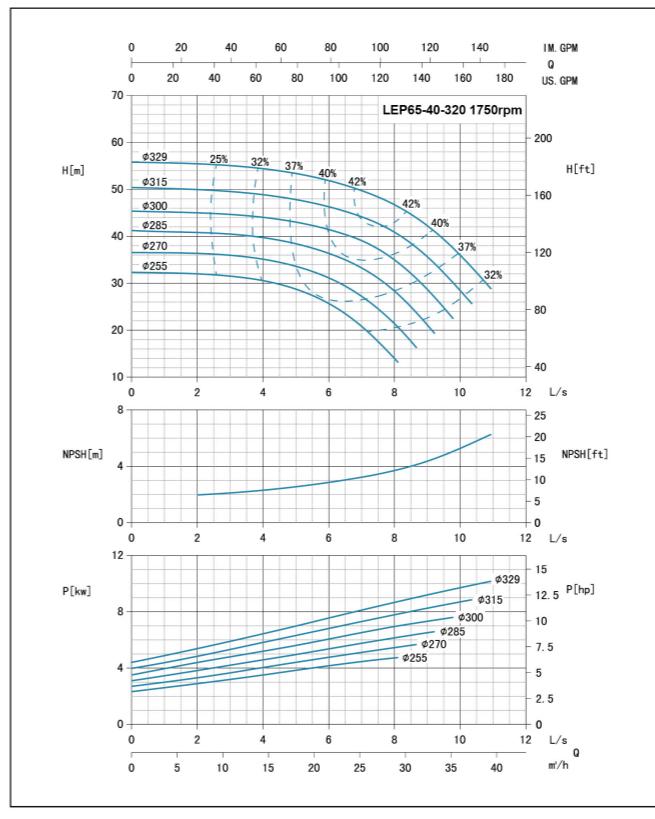
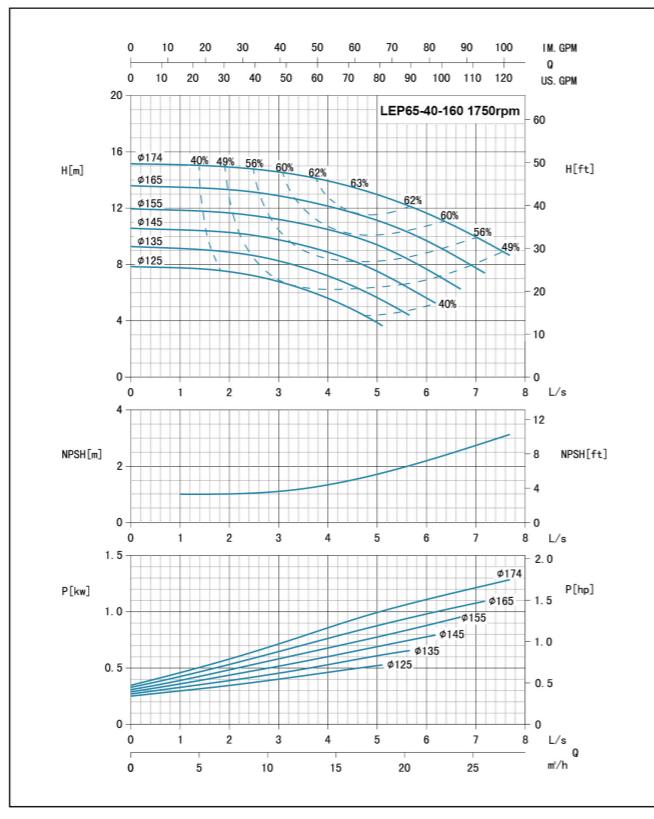
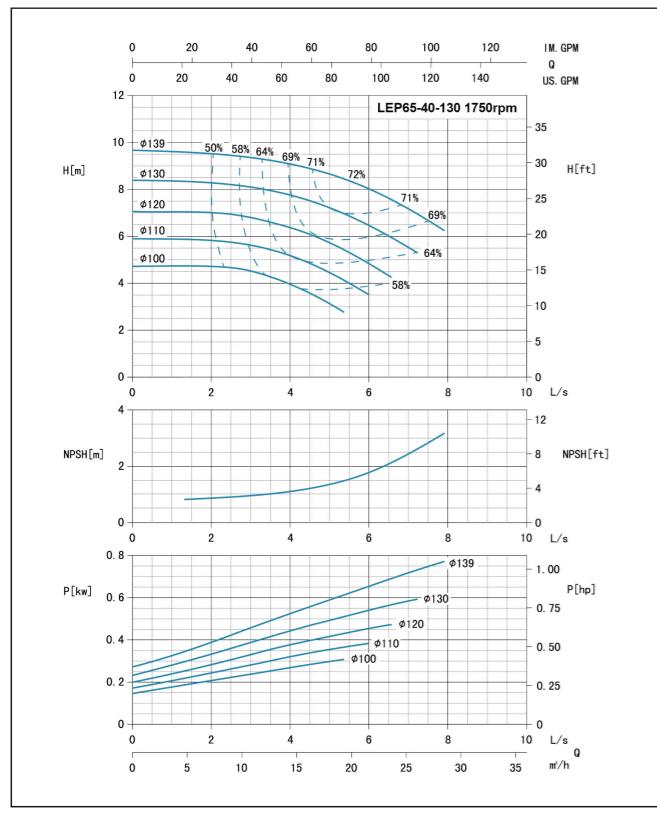
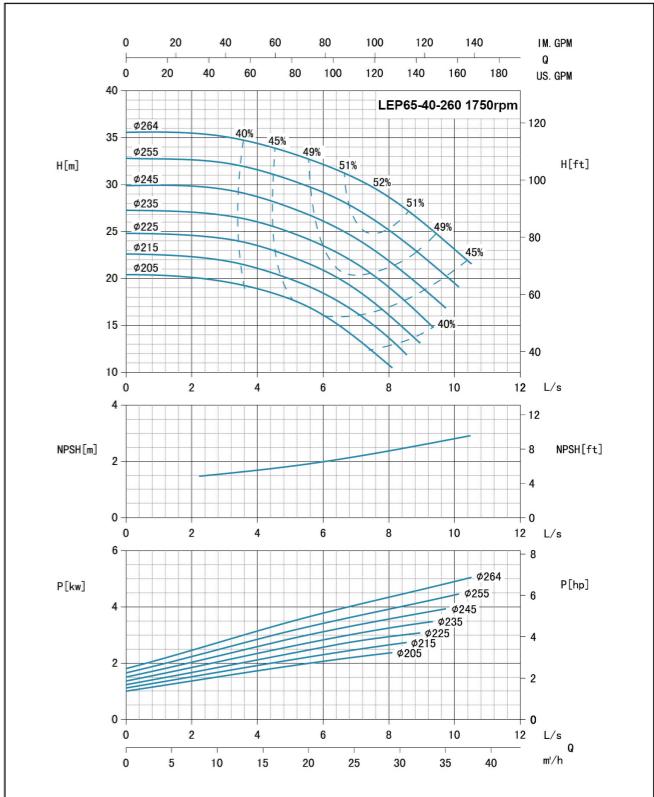
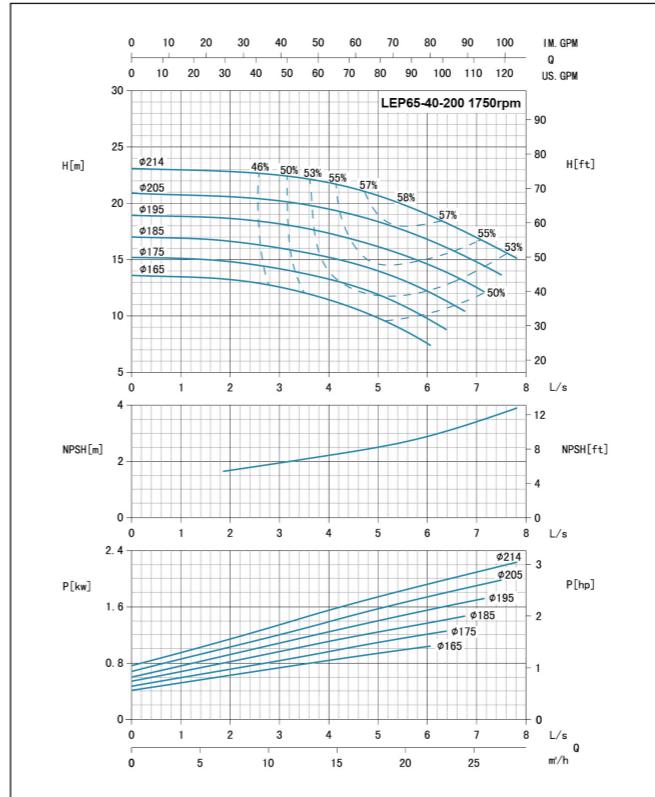
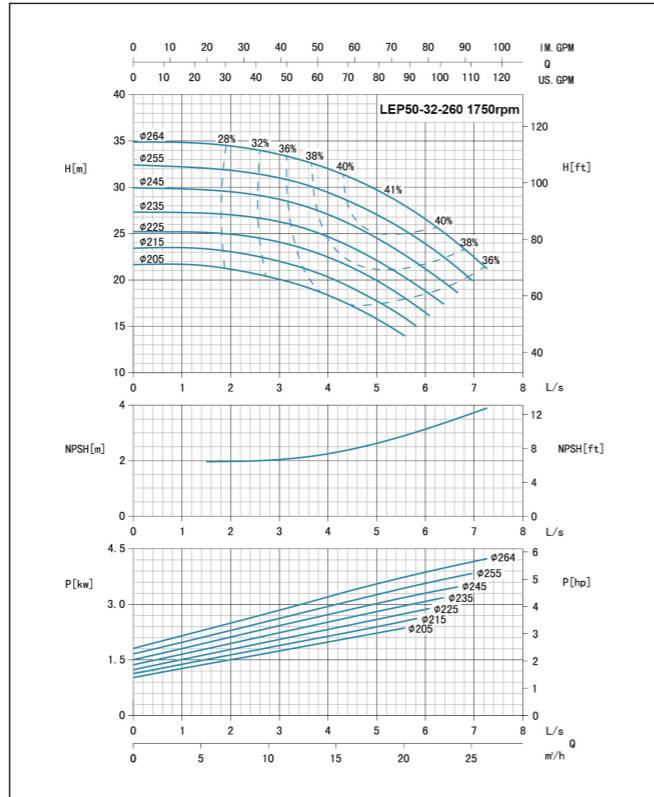
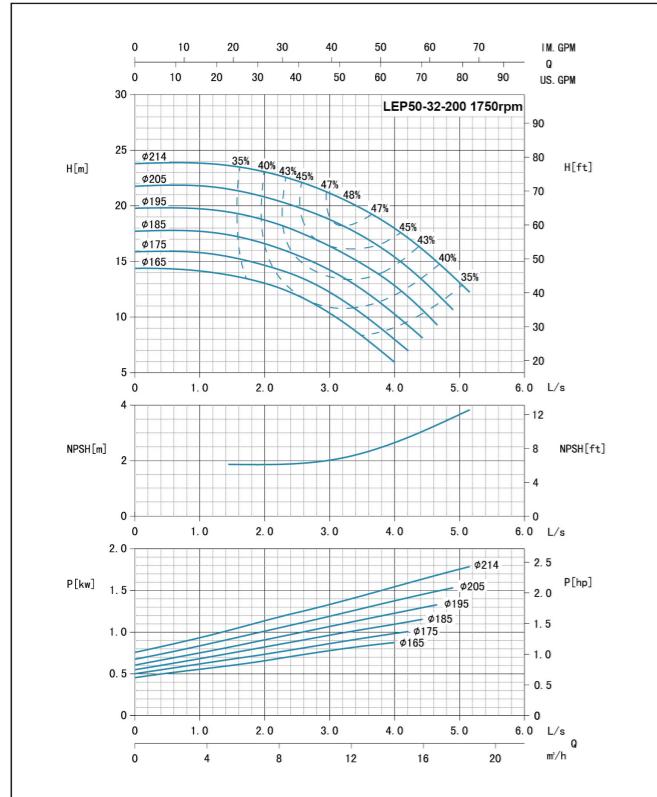


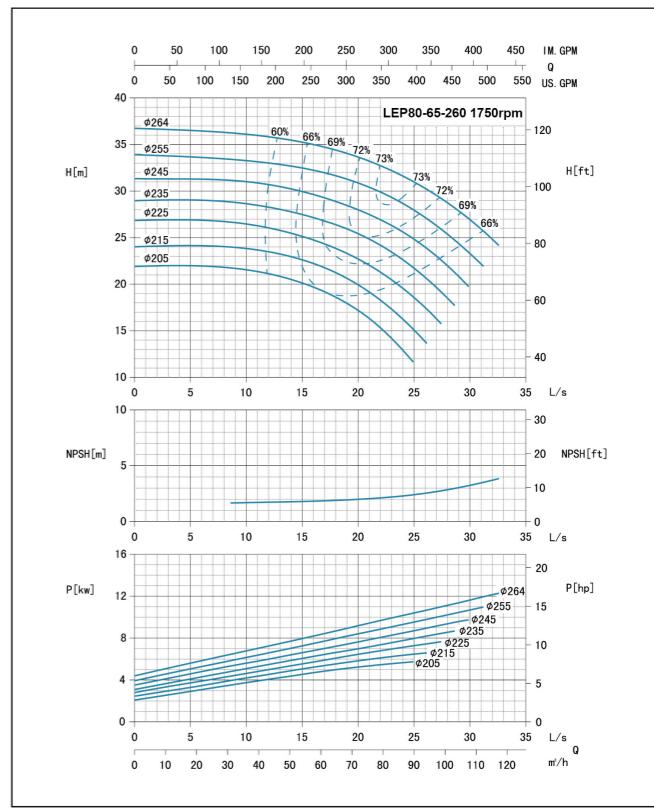
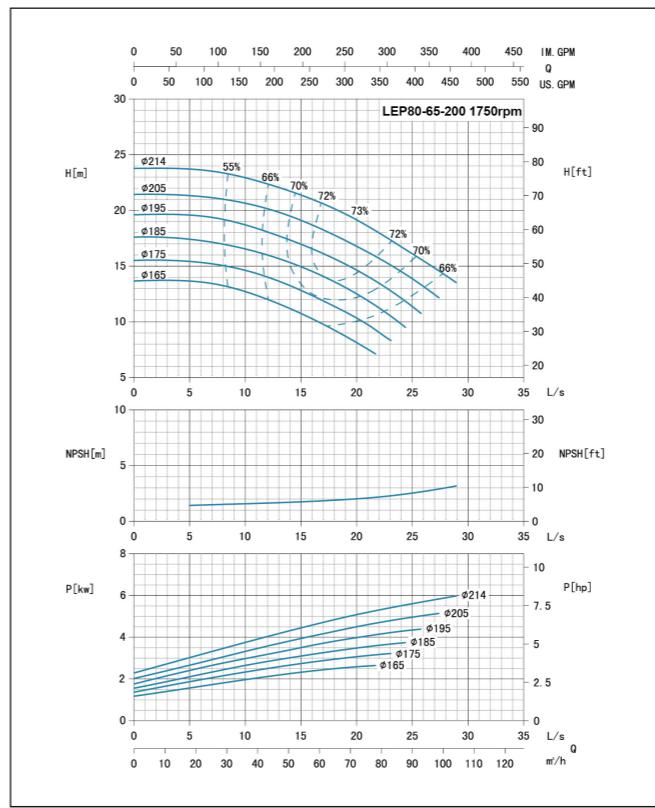
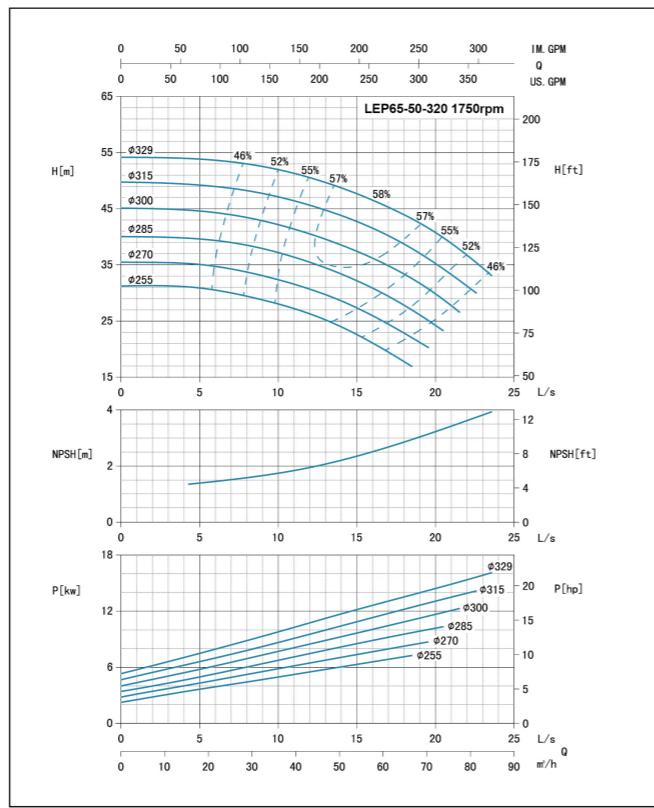
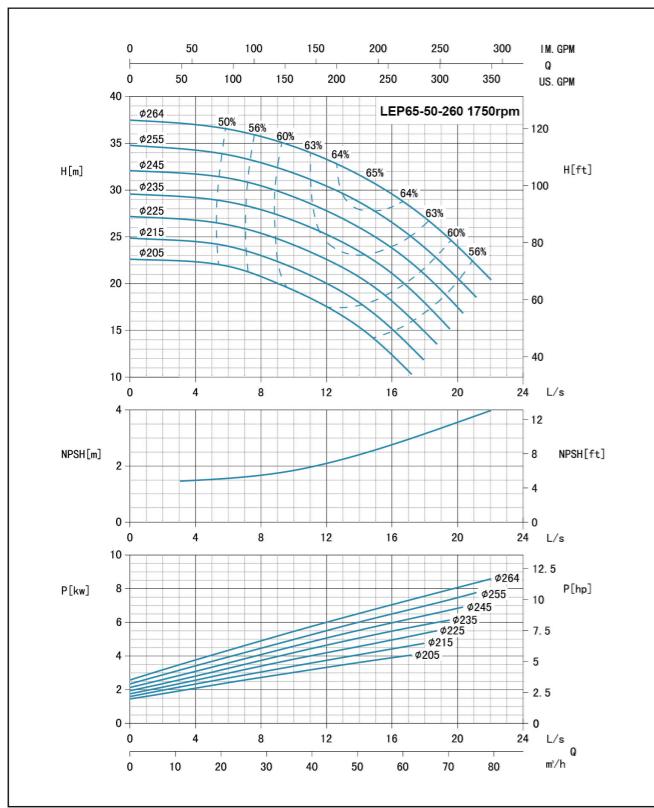
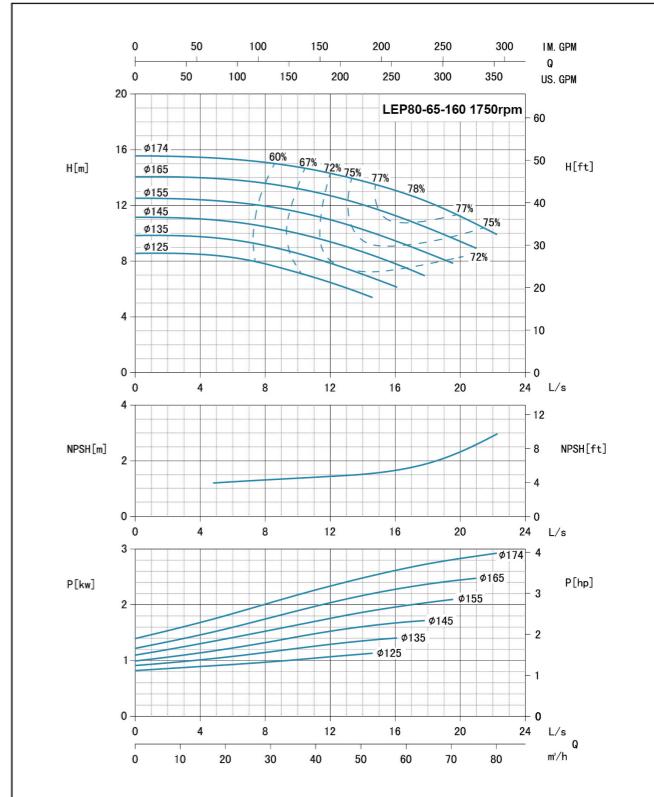
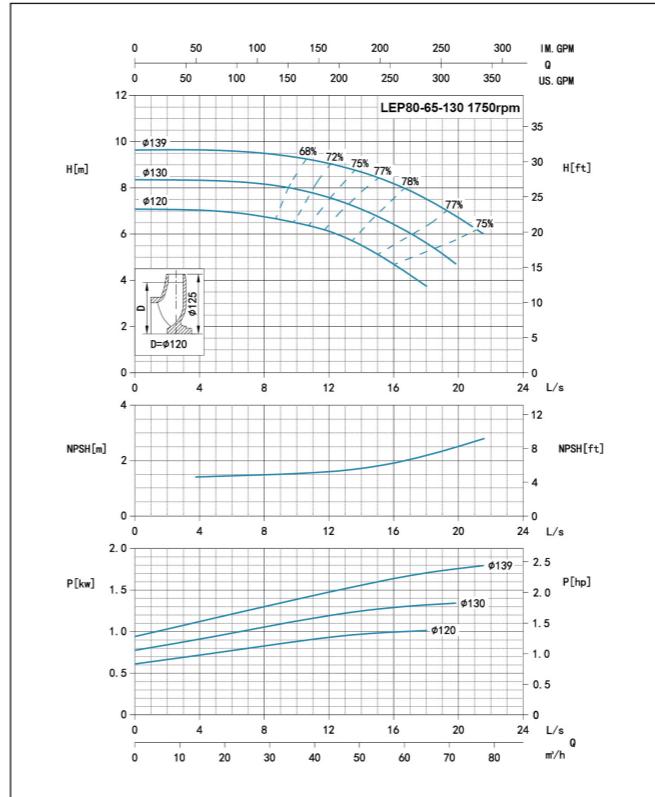
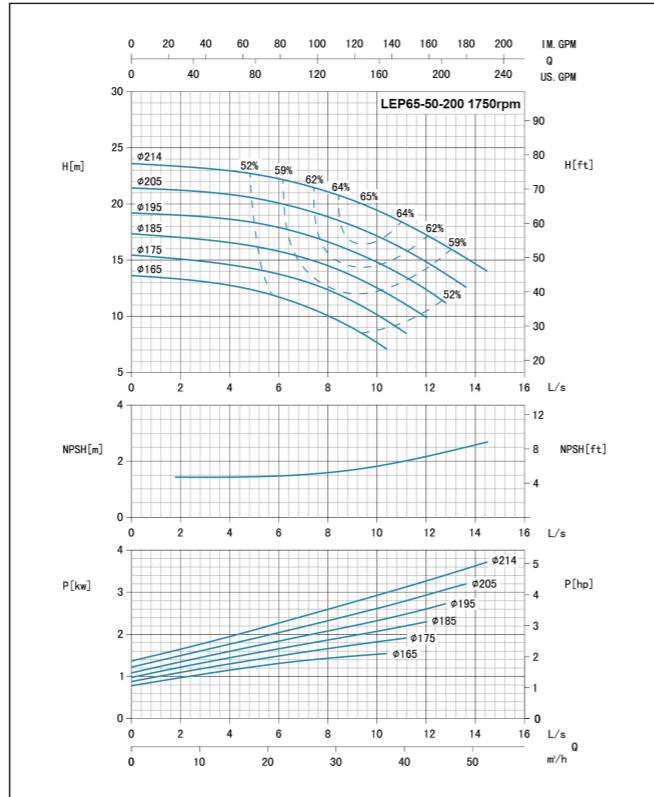
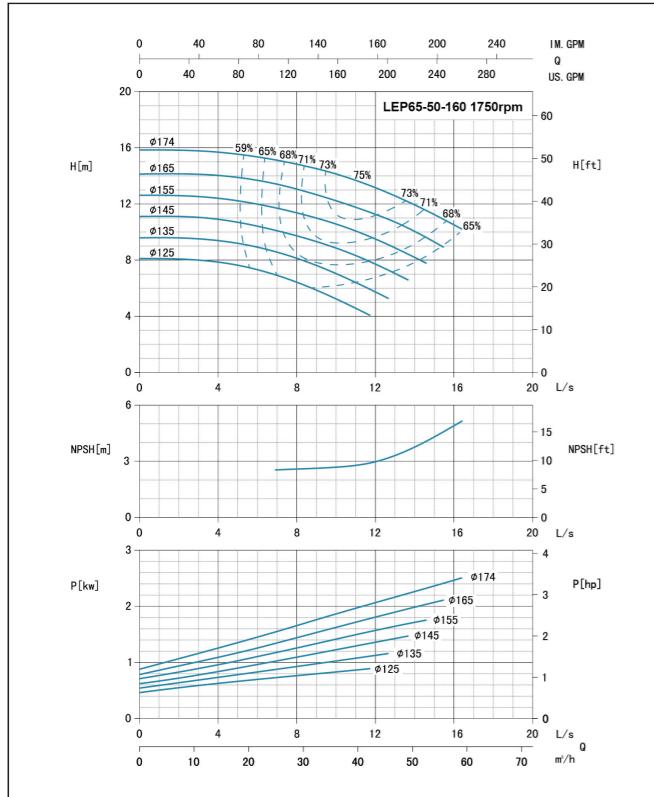


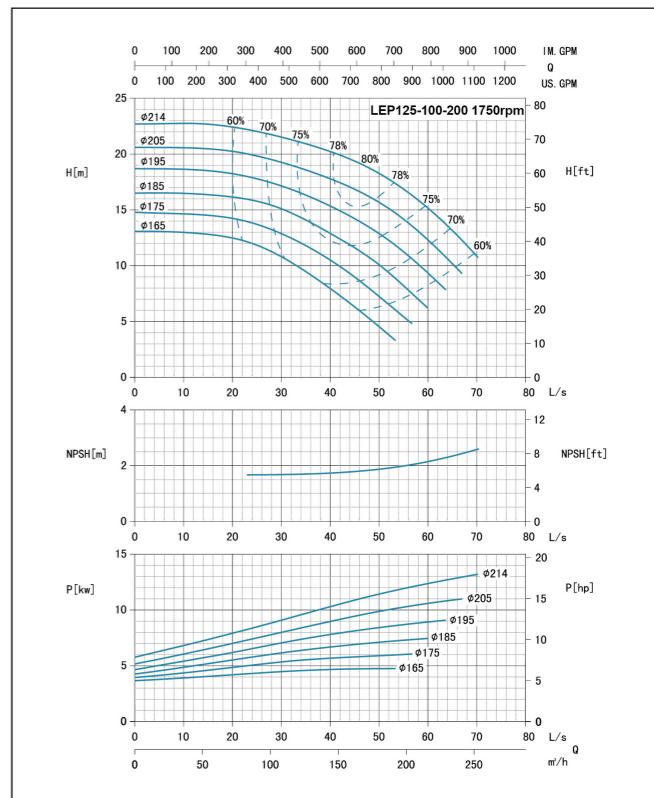
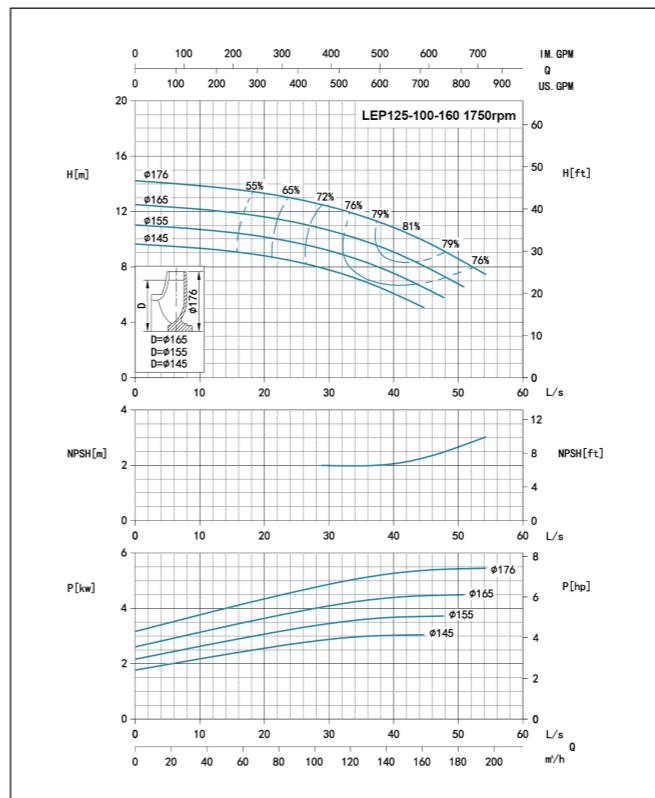
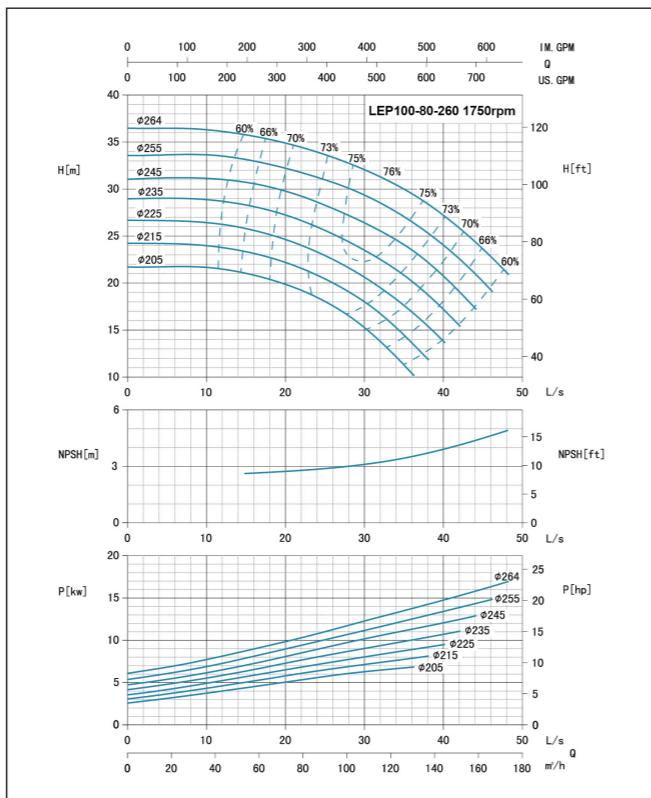
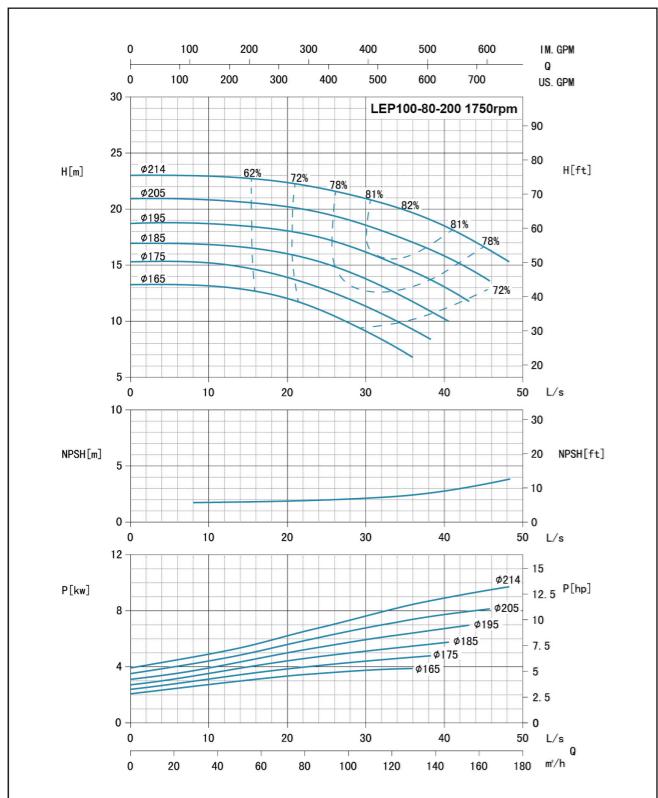
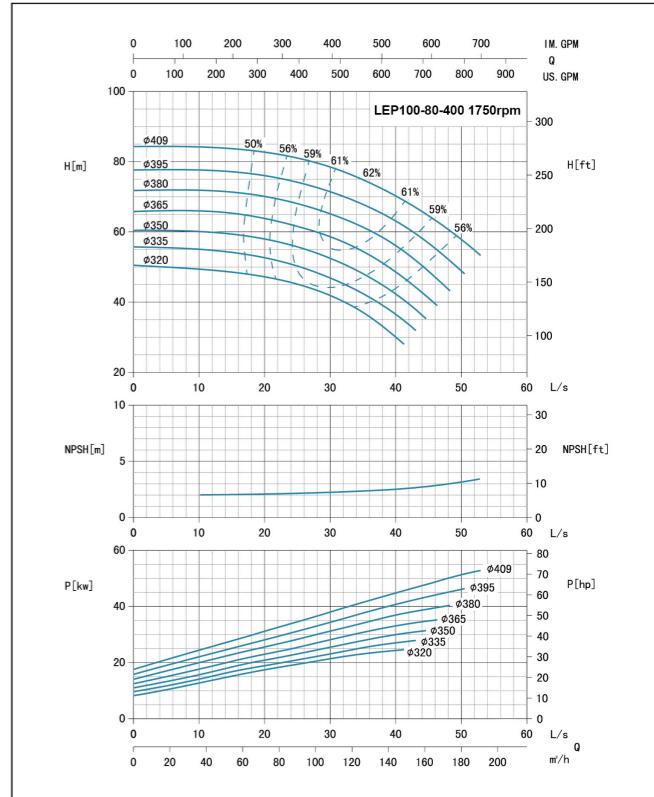
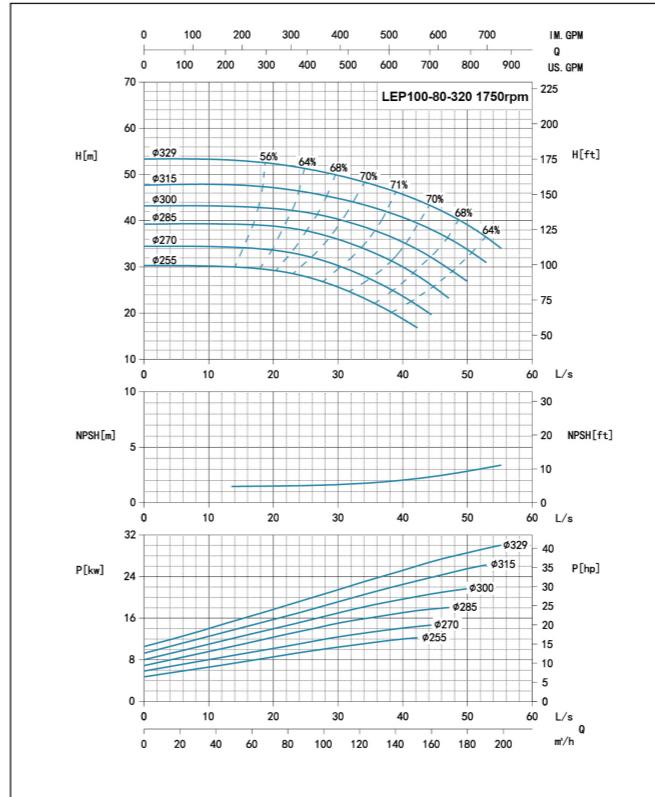
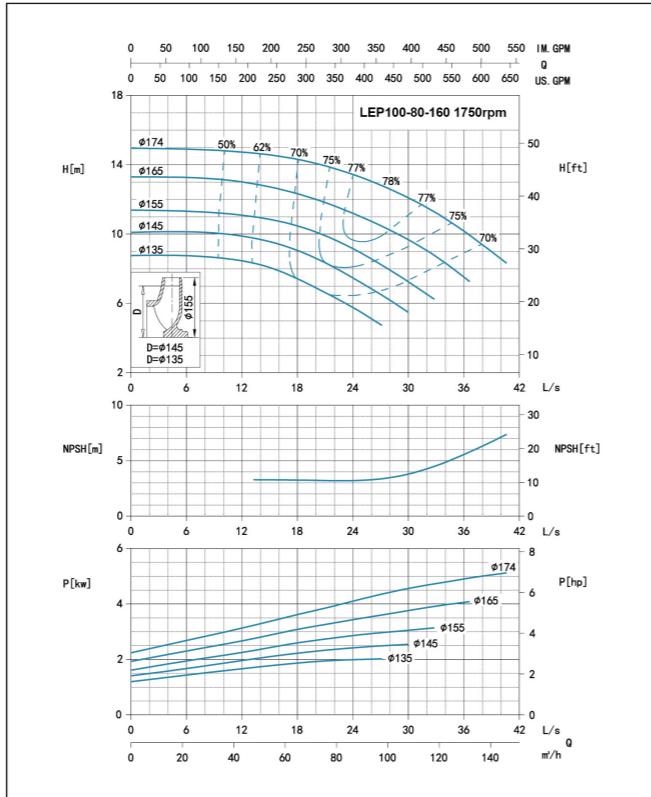
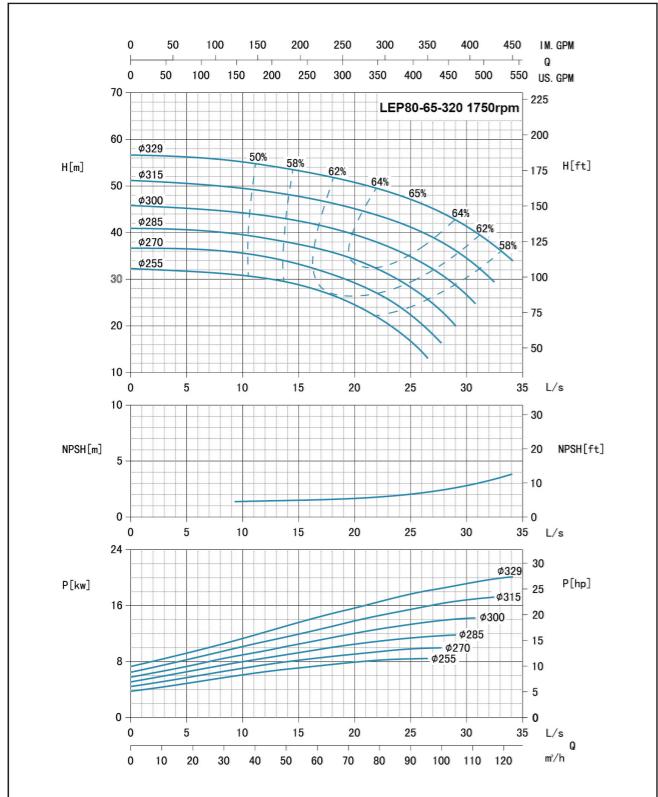


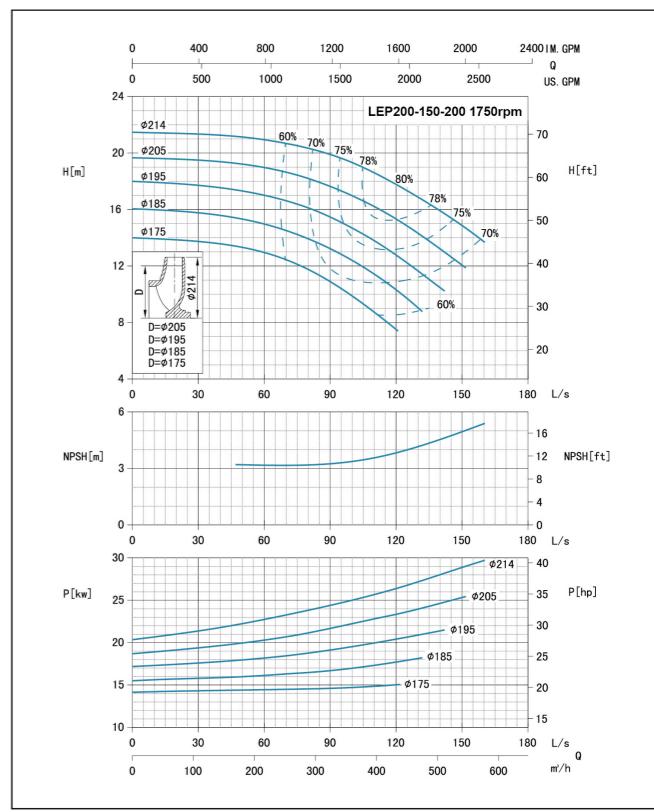
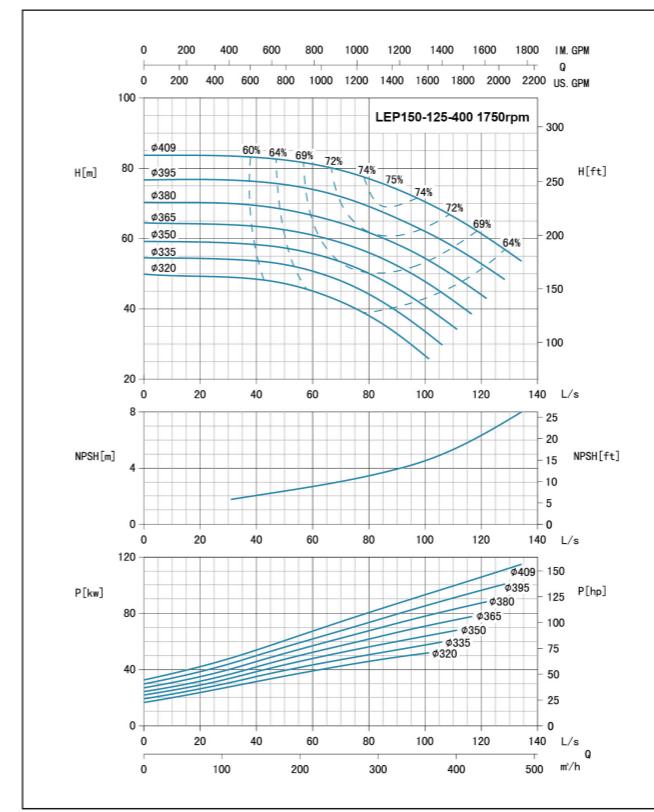
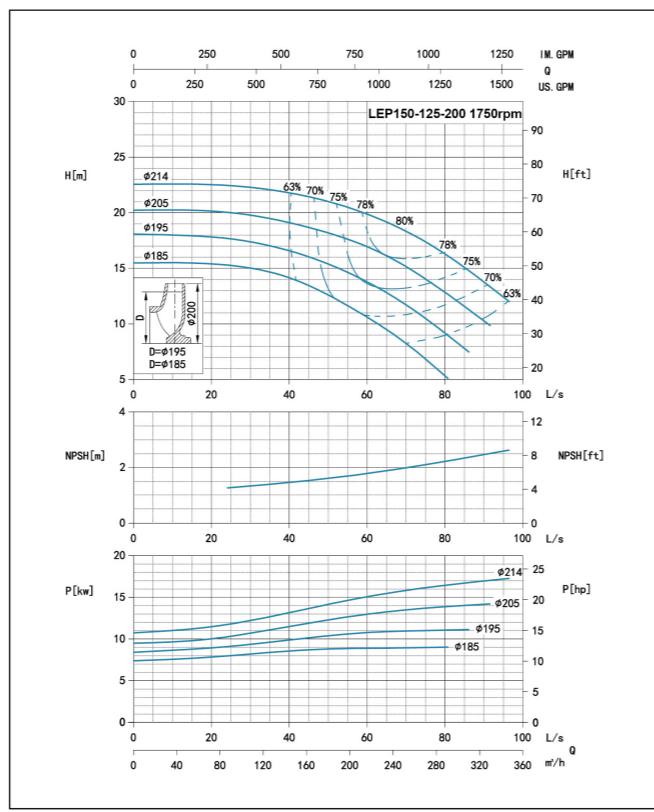
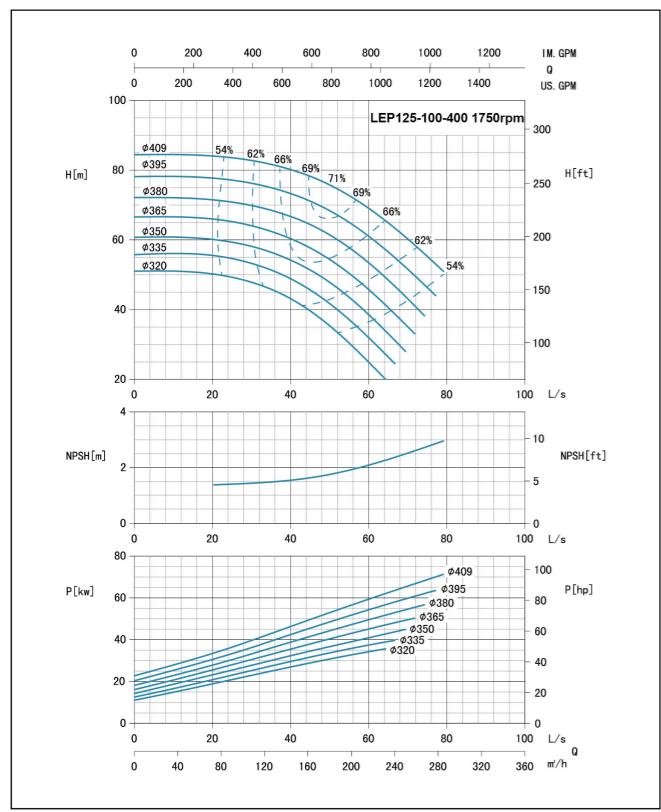
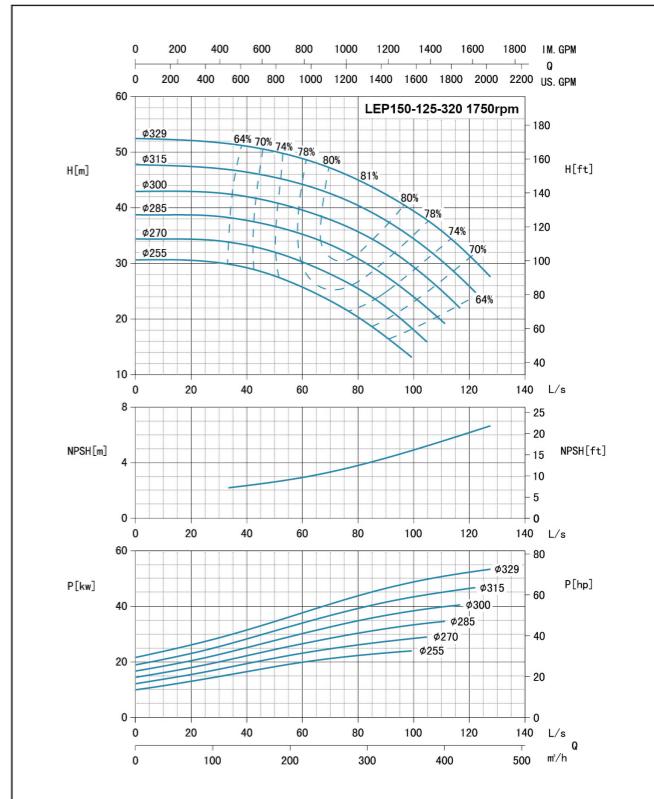
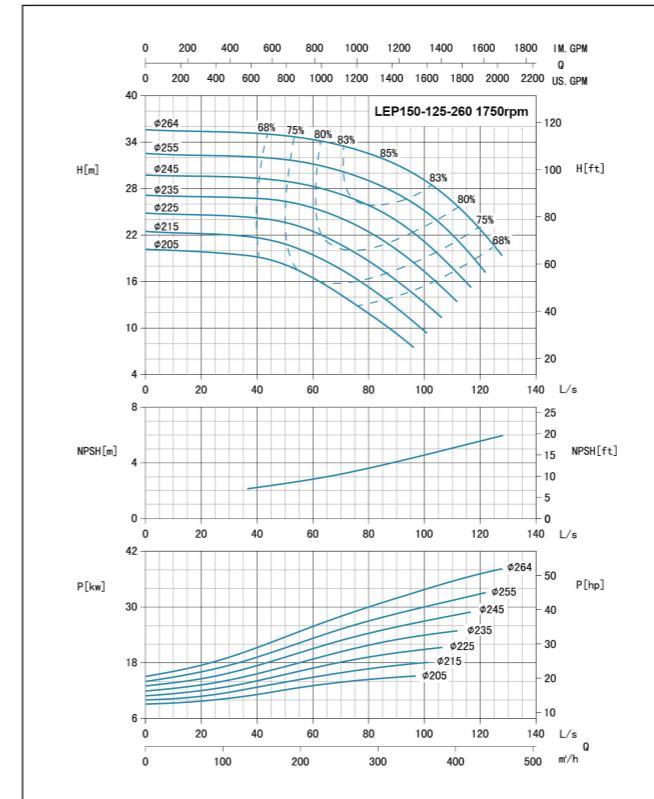
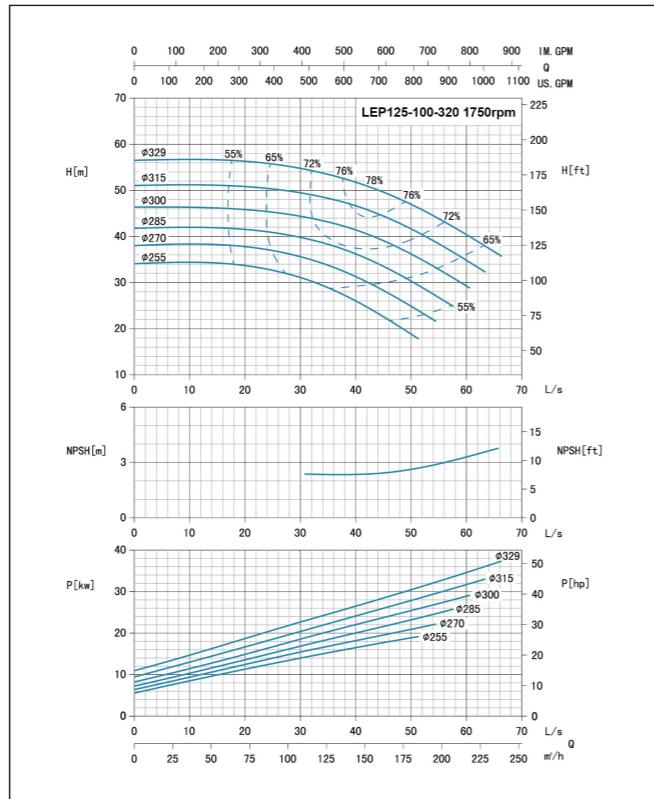
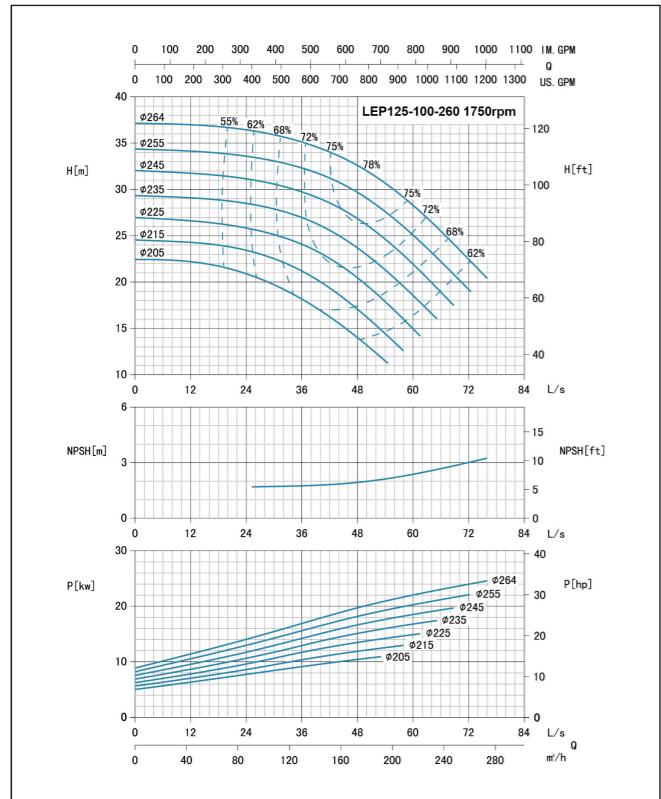


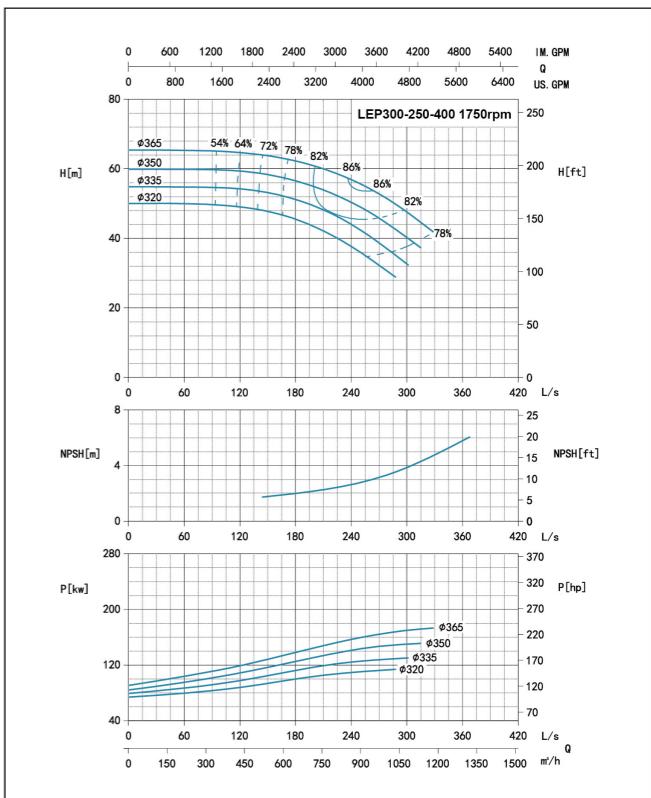
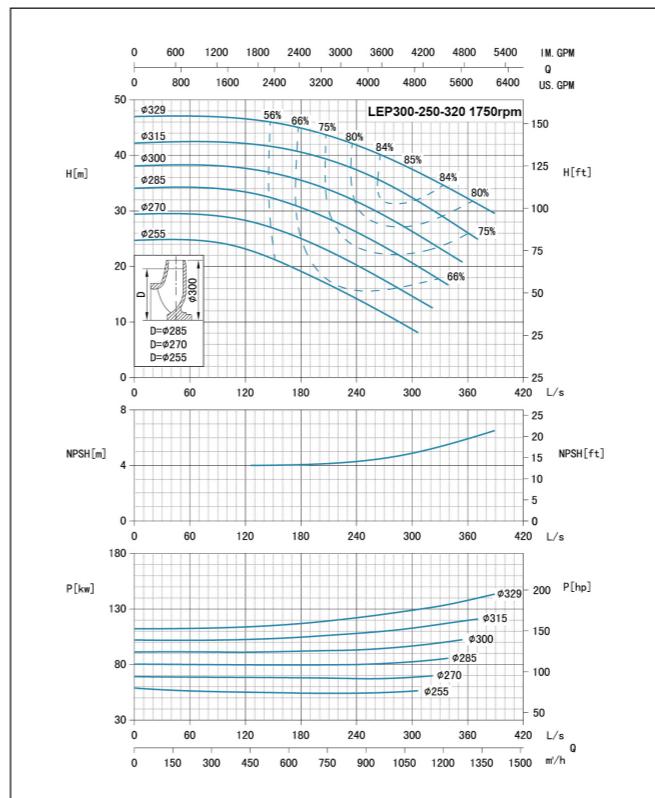
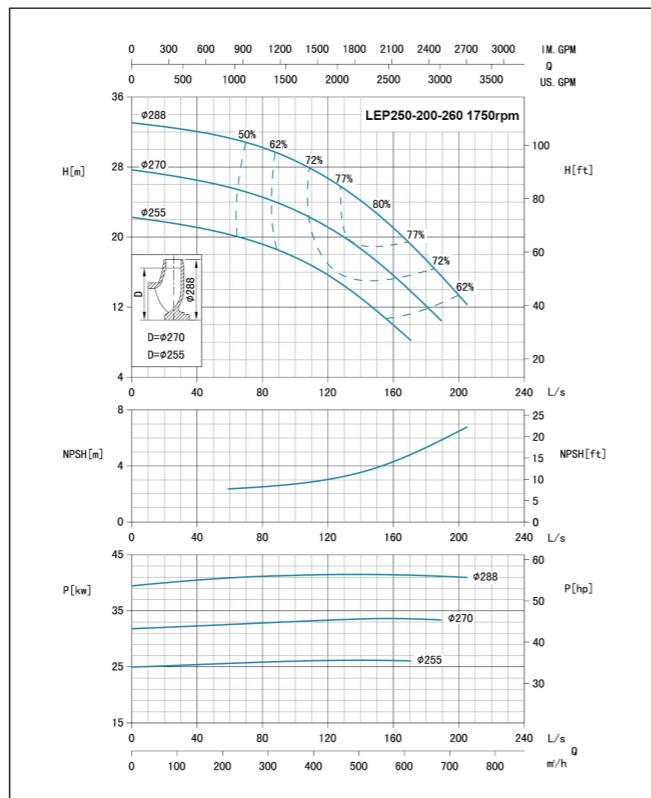
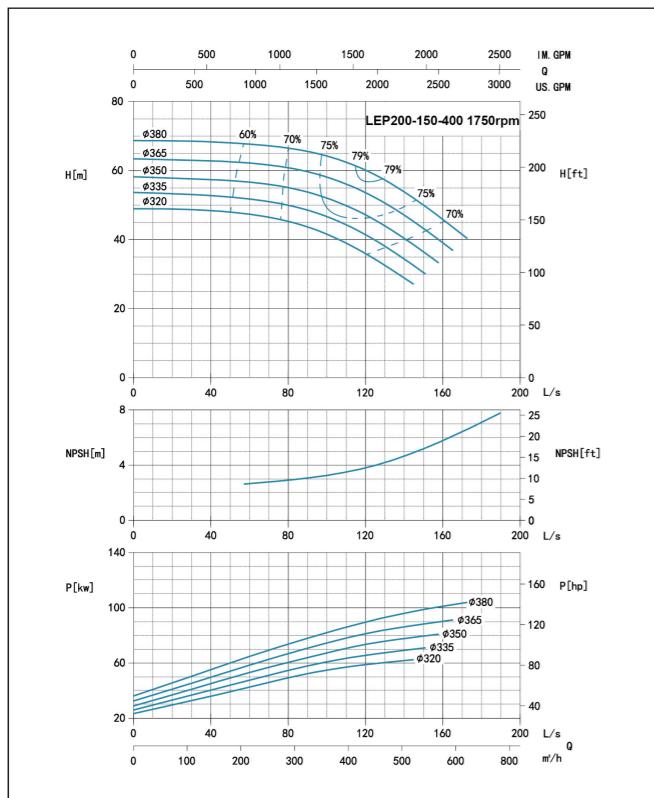
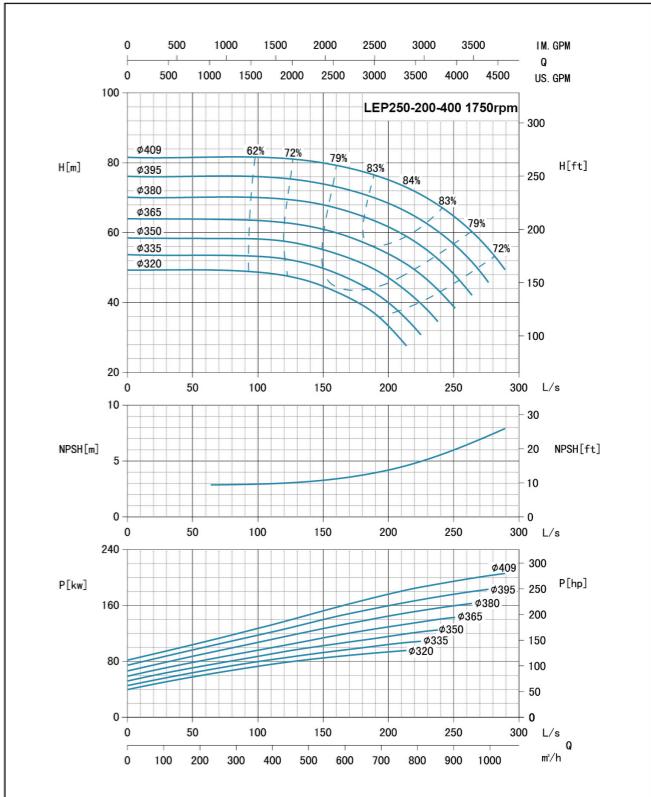
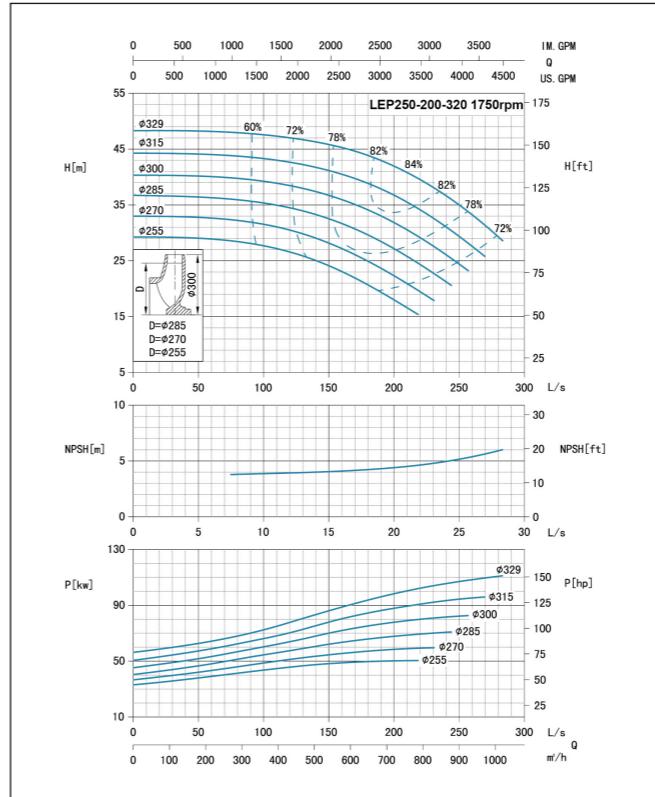
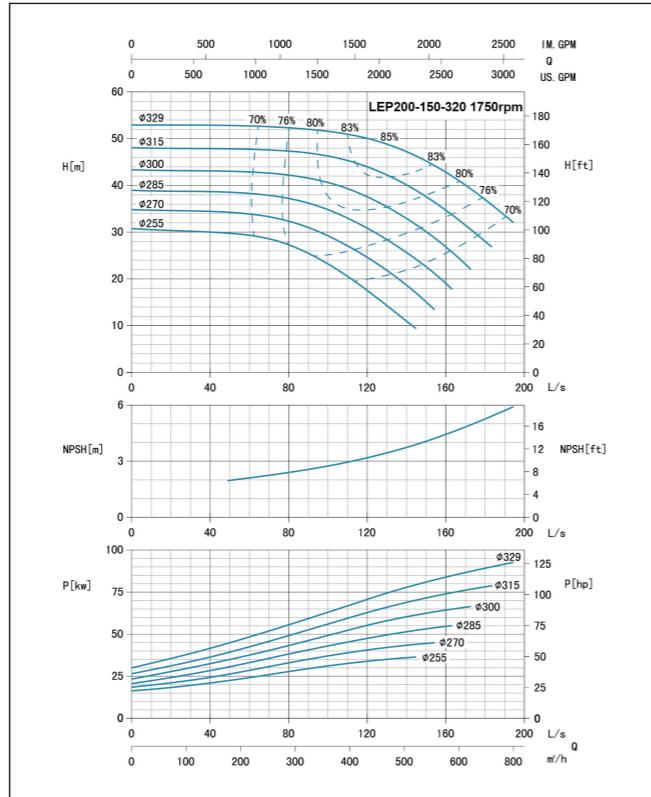
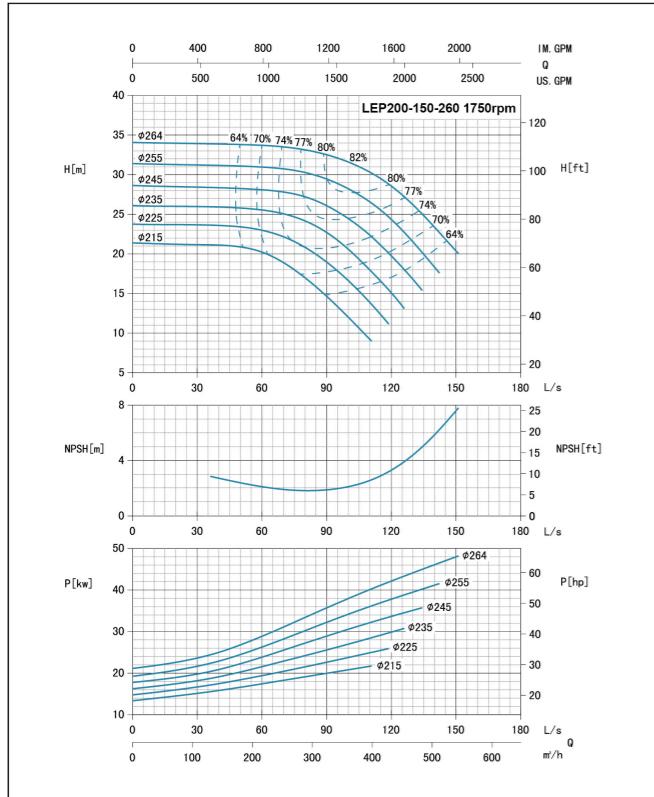












## Pump Range

	● Peripheral Pump		● Flexible Shaft Pump
	● Self-Priming Peripheral Pump		● Domestic Lifting Station
	● Jet Pump		● Pool Pump
	● Jet Pump for Deep Wells		● Garden Submersible Pump
	● Centrifugal Pump		● Garden Jet Pump
	● Multistage Centrifugal Pump		● Pressure Booster System
	● Self-Priming Centrifugal Pump		● Fountain Pump
	● Stainless Steel Multistage Centrifugal Pump		● Standard Centrifugal Pump
	● Stainless Steel Centrifugal Pump		● Submersible Borehole Pump
	● Submersible Pump		● Gasoline/Diesel Water Pump
	● Stainless Steel Submersible Pump		● Booster Pump/Circulation Pump
	● Stainless Steel Submersible Sewage Pump		

## Pump Range

	● Submersible Sewage Pump		● Stainless Steel Standard Centrifugal Pump
	● Submersible Sewage Pump		● Pressure Booster System
	● Submersible Dewatering Pump		● Vertical In-line Pump
	● Submersible Slurry Pump		● Bare Shaft End Suction Centrifugal Pump
	● Stainless Steel Vertical Multistage Pump		● End Suction Centrifugal Pump
	● Stainless Steel Horizontal Multistage Pump		
	● Semi-open Impeller Stainless Steel Centrifugal Pump		